CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Office building, New York, N. Y., 111 John St., Corp., having plans prepared, $2,000,000.

Piers, dry-docks, etc., Baltimore, Md., Bethlehem Shipbuilding Corp. Ltd., plans, $2,000,000.

Kamehameha School, Honolulu, H. T., having plans prepared, $2,000,000.

Hotel, Redwood City, Calif., Hotel Woodside Co., having plans prepared, $2,000,000.

Irrigation project, Wichita Falls, Tex., preparing preliminary plans, $1,750,000.

Hospital, New York, N. Y., Bellevue and Allied Hospitals, having plans prepared, $1,500,000.

Factory group, Fostoria, O., Natl. Carbon Co. having plans prepared, $1,500,000.

Apartment, Philadelphia, Pa., having plans prepared, $1,500,000.

Apartment, New York, N. Y., 145 West 82nd St. Corp. having plans prepared, $1,350,000.

Auditorium, Louisville, Ky., Louisville Memorial Auditorium having plans prepared, $1,000,000.

Bank and office, Davenport, Ia., American Commercial & Savings Bank plans prepared, $1,000,000.

Hotel apartment, Atlanta, Ga., T. M. Armistead Estate, having plans prepared, $1,000,000.

Repair shops, Atlanta, Ga., Pullman Co. plans, $1,000,000.

Garage, Memphis, Tenn., Memphis Natl. Garages having plans prepared, $1,000,000.

Bids Desired

Depot, Texarkana, Ark., M. P. R.R. Co. takes bids about Feb. 5, $1,300,000.

Administration building, Washington, D. C., U. S. Veterans Bureau probably takes bids in September, $1,100,000.

Bids Received

College building, Baltimore, Md., Bd. Awards, bid received, $1,998,000.

Contracts

Office building, New York, N. Y., H. I. Chanin, by separate contract, $8,000,000.

Hospital, Northport, N. Y., U. S. Veterans Bureau, awarded to A. Blair, Montgomery, Ala., $2,719,956.

Office and store, Chicago, Ill., Madison St. Bldg. Corp. awarded to L. Balkin, $2,500,000.

Power plant, Seguin, Tex., Texas Power Co. awarded to Sumner Sollitt Co., $1,200,000.

Dock, Galveston, Tex., Galveston Wharf Co. awarded to W. A. Kelso & Co., $1,000,000.

Drainage project, Brownsville, Tex., awarded to Callahan & Crawford, $1,000,000.

Apartment, San Francisco, Calif., Jones Calif. Co., Inc., awarded to Cahill Bros., $1,000,000.

Factory, Chicago, Ill., Olson Rug Co. awarded to Lundquist Constr. Co., $1,000,000.

Hotel, New York, N. Y., Paterno Bros. Inc., by separate contract, $1,000,000.

Hotel and theatre, Massillon, O., Agathon Hotel Co., awarded to A. F. Wendling Co., $1,000,000.

Classified Index of Bids Wanted

Waterworks

Bids close		*See Eng. News-Record*
Aug. 20	Cleveland, O.	Aug. 19
Aug. 23	Toledo, O.	Aug. 19
Aug. 23	Kingston, N. Y.	Aug. 12
Aug. 24	East Hartford (br. Hartford), Conn. Adv. Aug. 19.	Aug. 19
Aug. 25	Providence, R. I.	Aug. 5
Aug. 25	Buffalo, N. Y.	Aug. 19
Aug. 25	Detroit, Mich.	Aug. 19
Aug. 27	Milwaukee, Wis.	Aug. 19
Aug. 27	Long Island City, N. Y.	Aug. 19
Aug. 27	New York, N. Y.	Aug. 19
Aug. 27	Brooklyn, N. Y.	Aug. 19
Sept. 1	Cambridge (Boston P. O.), Mass.	Aug. 12
Sept. 1	Lake Charles, La.	Aug. 19
Sept. 2	Fremont, O. Adv. Aug. 12 and 19.	Aug. 12
Sept. 7	St. Louis, Mo.	Aug. 19
Sept. 8	Detroit, Mich. Adv. Aug. 12 and 19.	Aug. 12
Sept. 9	Newark, N. J. Adv. Aug. 12 and 19.	Aug. 12
Sept. 30	Santo Domingo, W. I.	July 22

Sewers

Aug. 20	Nanty Glo, Pa.	Aug. 12
Aug. 23	Toledo, O.	Aug. 19
Aug. 23	Brighton (Boston P. O.), Mass.	Aug. 12
Aug. 23	Ft. Thomas, Ky. Adv. Aug. 19.	Aug. 19
Aug. 24	East White Plains, N. Y. Adv. Aug. 5 to 19.	Aug. 5
Aug. 24	Excelsior Springs, Mo.	Aug. 12
Aug. 24	Columbus, O.	Aug. 19
Aug. 24	Boston, Mass.	Aug. 19
Aug. 24	Long Island City, N. Y.	Aug. 19
Aug. 25	Boston, Mass.	Aug. 12
Aug. 25	Grand Rapids, Mich.	Aug. 19
Aug. 25	Beloit, Wis.	Aug. 19
Aug. 26	Boston, Mass.	Aug. 19
Aug. 26	Akron, O.	Aug. 19
Aug. 30	Jenkintown, Pa.	Aug. 12
Aug. 31	West Jefferson, O.	Aug. 19
Sept. 7	Mamaroneck, N. Y. Adv. Aug. 19.	Aug. 19
Sept. 7	Plainfield, N. J. Adv. Aug. 19.	Aug. 19
Sept. 8	Brooklyn, N. Y. Adv. Aug. 12 and 19.	Aug. 12
Sept. 8	Marcy, N. Y.	Aug. 12
Sept. 8	Salem, Mass. Adv. Aug. 19.	Aug. 19

Bridges

Aug. 23	Carrolton, Ky.	Aug. 5
Aug. 24	North Carolina	Aug. 12
Aug. 24	New York and New Jersey	Aug. 5
Aug. 24	Barnstable, Mass.	Aug. 19
Aug. 25	Missouri	Aug. 19
Aug. 26	South Carolina	Aug. 5
Aug. 26	Michigan	Aug. 19
Aug. 26	Bogue, Kan.	Aug. 19
Aug. 30	California	Aug. 19
Aug. 31	St. Louis, Mo.	Aug. 12
Aug. 31	Newton, N. J. Adv. Aug. 19.	Aug. 19
Sept. 1	Scarsdale, N. Y. Adv. Aug. 12 and 19.	Aug. 12
Sept. 1	Jacksonville, Fla. Adv. Aug. 12 and 19.	Aug. 12
Sept. 16	New York, N. Y.	Aug. 19
Dec. 1	Copenhagen, Denmark	July 15

Railways

Aug. 31	Massachusetts Adv. Aug. 12 and 19.	Aug. 12

Excavation, Drainage, Irrigation, Levees, River and Harbor

Aug. 23	New Jersey	Aug. 5
Aug. 25	Fairfield, Ill.	Aug. 12
Sept. 1	Klamath Falls, Ore.	Aug. 19
Sept. 2	Chicago Heights, Ill.	Aug. 19
Sept. 7	Buffalo, N. Y.	Aug. 12

Streets and Roads

Aug. 20	Stamford, Conn.	Aug. 12
Aug. 20	Dayton, O.	Aug. 12
Aug. 21	Columbus, O.	Aug. 12
Aug. 23	Kentucky	Aug. 5
Aug. 24	Paducah, Ky.	Aug. 12
Aug. 24	West Virginia	Aug. 5
Aug. 24	Pennsylvania Adv. Aug. 5 to 19.	Aug. 5
Aug. 24	Oskaloosa, Kan.	Aug. 5
Aug. 24	Minnesota	Aug. 12
Aug. 24	North Carolina Adv. Aug. 12 and 19.	Aug. 12
Aug. 24	Massachusetts	Aug. 12
Aug. 24	Louisiana	Aug. 12
Aug. 24	Meadville, Pa. Adv. Aug. 19.	Aug. 19
Aug. 24	Wash., D. C. Adv. Aug. 19.	Aug. 19
Aug. 24	Wisconsin	Aug. 19
Aug. 24	Massachusetts	Aug. 19
Aug. 24	Ionia, Mich.	Aug. 19
Aug. 24	Long Island City, N. Y.	Aug. 19
Aug. 25	Sedan, Kan.	Aug. 5
Aug. 25	Mt. Clemens	Aug. 19
Aug. 25	Missouri	Aug. 19
Aug. 26	Middletown, N. J. Adv. Aug. 12 and 19.	Aug. 12
Aug. 26	Michigan	Aug. 19
Aug. 27	Troy, Kan.	Aug. 5
Aug. 27	Florida	Aug. 12
Aug. 27	Florida	Aug. 19
Aug. 27	Cincinnati, O.	Aug. 19
Aug. 28	Goshen, Ind.	July 15
Aug. 30	Lake Charles, La.	Aug. 19
Aug. 30	Ft. Scott, Kan.	Aug. 12
Aug. 30	New Jersey Adv. Aug. 12 and 19.	Aug. 12
Aug. 30	Norwalk, O.	Aug. 19
Aug. 31	Mankato, Kan.	Aug. 12
Aug. 31	Ft. Scott, Kan.	Aug. 19
Aug. 31	Virginia Adv. Aug. 19.	Aug. 19
Aug. 31	St. Louis, Mo.	Aug. 19
Aug. 31	Minnesota	Aug. 19
Sept. 1	New Philadelphia, O.	July 29
Sept. 1	Birmingham, Ala.	Aug. 5
Sept. 1	Lisbon, O.	Aug. 5
Sept. 1	Delaware	Aug. 5
Sept. 1	Cuba Adv. Aug. 5 to 19.	Aug. 5
Sept. 2	Wichita, Kan.	Aug. 19
Sept. 2	Louisiana	Aug. 19
Sept. 3	Kentucky	Aug. 12
Sept. 3	Kentucky	Aug. 19
Sept. 7	Sioux Center, Ia.	Aug. 12
Sept. 7	Louisiana	Aug. 12
Sept. 10	Norton, Kan.	Aug. 19
Sept. 29	Kentucky	Aug. 12
Sept. 29	Alabama	Aug. 12

Buildings—Commercial

Aug. 20	Moorestown, N. J.	Aug. 12
Aug. 24	St. Louis, Mo.	Aug. 12
Aug. 24	St. Charles, Ill.	Aug. 12
Aug. 24	Iron River, Mich.	Aug. 19
Aug. 25	Newark, N. J.	Aug. 5
Aug. 27	Mt. Ayr, Ia.	Aug. 12
Aug. 27	Eufaula, Okla.	Aug. 12
Aug. 31	New York, N. Y.	Aug. 19
Sept. 1	Charlotte, N. C.	Aug. 12
Sept. 1	Chicago, Ill.	Aug. 19
Sept. 1	Vancouver, B. C.	Apr. 22
Nov. 15	Duluth, Minn.	July 15

See proposal advertising on page 138

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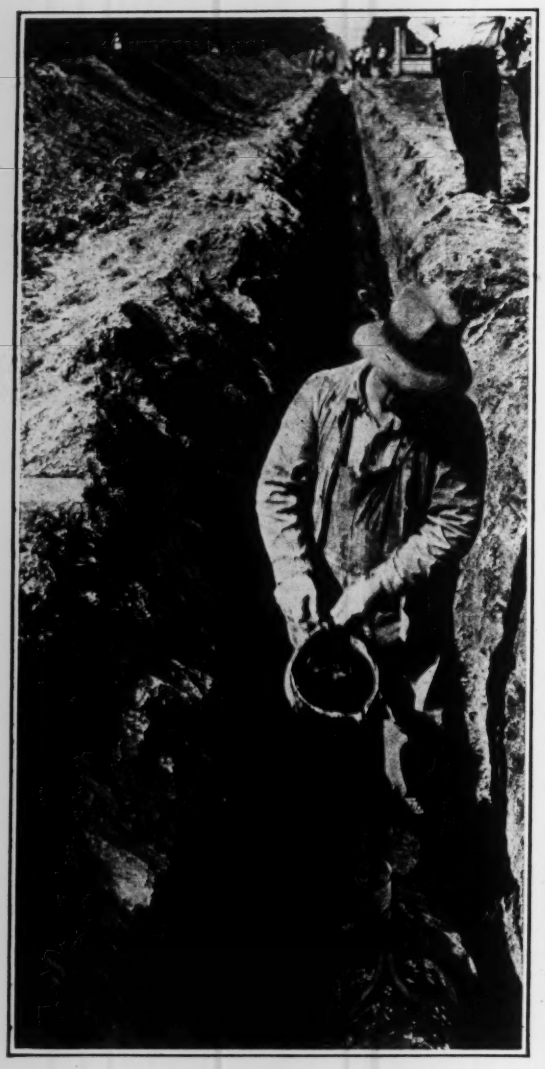
TRADE "LEADITE" MARK

Registered U. S. Pat. Office



Pouring LEADITE Joints on line of 12-in. c. i. bell and spigot water main.

Durable Pipe Joints

The wise man builds for the future. Supply lines and distribution systems are usually permanent installations.

Durability and quality should be the first consideration of the product used for making joints in cast iron bell and spigot water mains.

LEADITE is a good product and the leader in its field, because it has gained and retained the recognition, support and patronage of such a great number of water works men for so many years.

LEADITE has been tested and used for over 30 years, under all pressures and conditions, by water works, railroads, mines, contractors and industrial plants thruout the country.

Thousands of miles of pipe have been laid with LEADITE joints, on all sizes from 4 in. to 60 in. in diameter.

LEADITE takes the drudgery out of pipe laying; saves time, money and labor; makes flexible joints; makes joints which will stand vibration under tracks, over and under bridges; makes joints which resist electrolysis; eliminates large bell holes; reduces trench pumping and other work incidental to caulking—LEADITE requires no caulking.

Every water works man abreast of the times knows about LEADITE. LEADITE is an interesting and familiar topic at water works conventions and wherever water works men congregate.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.

1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Buildings—Industrial

Bids close *See Eng. News-Record*

Aug. 20 Altoona, Pa. .....Aug. 12
Sept. 10 Nashville, Tenn. .....Aug. 19
Adv. Aug. 19.

Buildings—Educational, Religious

Aug. 20 Gloucester, N. J. .....Aug. 5
Aug. 20 Phila., Pa. .....Aug. 19
Aug. 23 Belleville, N. J. .....Aug. 19
Aug. 24 Urbana, Ill. .....Aug. 12
Aug. 24 Muscatine, Ia. .....Aug. 12
Aug. 24 Juniata, Pa. .....Aug. 19
Aug. 24 Iron River, Mich. .....Aug. 19
Aug. 25 Columbus, O. .....Aug. 19
Aug. 26 Deering, Mo. .....Aug. 12
Aug. 26 Cleveland, O. .....Aug. 19
Aug. 27 Dallas, Tex. .....Aug. 12
Aug. 30 Fort Atkinson, Wis. .....Aug. 19
Sept. 3 Kent, O. .....Aug. 19

Federal Government Work

Aug. 20 Dredging—Providence, R. I. .....July 22
Aug. 23 Pipe Tunnels—Dayton, O. .Aug. 12
Aug. 24 Remodeling—Petersburg, Va. .....Aug. 5
Aug. 25 Apartment—Great Lakes (mail Waukegan), Ill. .....Aug. 12
Aug. 25 Dredging—Edgemoor, Del. .....Aug. 12
Aug. 27 Earthwork—Missouri .....Aug. 19
Adv. Aug. 19.

Bids close *See Eng. News-Record*

Aug. 27 Breakwater—Norfolk, O. ...Aug. 19
Aug. 30 Canal—Portage, Wis. .....July 29
Adv. Aug. 5 to 19.
Aug. 31 Dam—Montana .....July 29
Aug. 31 Remodeling—Marshalltown, Ia. .....Aug. 19
Sept. 1 Turbine, etc.—Idaho .....Aug. 5
Sept. 1 Walks—San Diego, Calif. .Aug. 12
Sept. 1 Dikes—St. Louis, Mo. .....Aug. 12
Sept. 3 Lockhouse—Milwaukee, Wis. .....Aug. 5
Adv. Aug. 5 to 19.
Sept. 8 Surfacing—Puget Sound, Wash. .....Aug. 19
Sept. 9 Boiler House—Dayton, O. .Aug. 19
Adv. Aug. 12 and 19.
Sept. 13 Beartrap Leaves—Louisville, Ky. .....Aug. 19
Adv. Aug. 19.
Sept. 15 Quarters—Canacao, P. I. .July 1
Oct. 1 Jetty—Sabine Pass, Tex. .Aug. 12
Adv. Aug. 12 and 19.

Unclassified

Aug. 23 Grading and Foundation—Ann Arbor, Mich. .....Aug. 19
Aug. 23 Traffic Signals—New York, N. Y. .....Aug. 19
Aug. 25 Borings, etc.—Albany, N. Y. .....Aug. 12
Adv. Aug. 12 and 19.

Bids close *See Eng. News-Record*

Aug. 25 Railroad Crossing—Phila., Pa. .....Aug. 19
Aug. 25 Grand Stand—Chicago, Ill. .....Aug. 19
Aug. 26 Boilers, etc.—Danville, Pa. .....Aug. 12
Aug. 27 Subway—Brooklyn, N. Y. .Aug. 19
Aug. 31 Lighting System—Upper Arlington (Columbus P. O.) O. .Aug. 19
Sept. 9 Wharf—West Palm Beach, Fla. .....Aug. 5
Adv. Aug. 5 and 19.
Sept. 10 Air Compressor—Farmingdale, N. Y. .....Aug. 19
Adv. Aug. 19.
Sept. 15 Steam Turbines, etc.—Hamilton, O. .....Aug. 19
Sept. 30 Crane Gantries, etc.—Otahuhu, New Zealand .....May 20
Nov. 1 Buildings, etc.—New Zealand .....July 1

Materials

Aug. 20 Crossing Slips and Frogs—Phila., Pa. .....Aug. 12
Aug. 26 Cement, etc.—New York, N. Y. .....Aug. 19
Aug. 27 Structural Steel—Phila., Pa. .....Aug. 19
Aug. 31 Portland Cement—St. Paul, Minn. .....Aug. 19

News of New Work

Waterworks

Proposed Work

N. J., Glassboro—Plans drilling 500,000 g.p.d. artesian well.

W. Va., Nutter Fort — Voted $33,000 bonds, main extensions, etc. Noted June 24.

N. C., Henderson—Making surveys additional water supply.

N. C., Raleigh—Plans water and sewer lines in 10 acre development in Hayes-Barton. C. C. Page, comr. Pub. Wks.

S. C., Greenville — Election soon $65,000 bonds, waterworks.

S. C., Laurens — Election soon $80,000 bonds, waterworks, and $20,000 bonds, sewers in various streets.

Ga., Augusta—Voted $85,000 bonds, concrete reservoir.

Ga., Leslie—Voted $18,000 bonds, waterworks.

Miss., Picayune — Defeated $225,000 bonds, waterworks improvements. Noted Aug. 5.

Kan., Eldorado—Election Aug. 26, $439,-471 bonds, water supply. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs. Noted April 8.

Kan., Leon — Plans new waterworks. $20,000. E. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs.

N. D., Mandan—Election Aug. 24, $176,-000 bonds, repairing old and constructing 1 m.g. concrete reservoir, 2nd service water main and filtration system. Noted June 10.

Mo., Princeton—Election Aug. 31, $25,-000 bonds, waterworks. Shockley Engr. Co., 800 Graphic Art Bldg., Kansas City, engrs. Noted July 15.

Ark., Marianna—Takes bids in early fall, waterworks improvements and distribution system, incl. new pumping equipment, filtration plant, distribution mains, etc. $100,-000-$120,000. T. A. Allen, 840 Bank Commerce Bldg., Memphis, Tenn., engr. Noted June 17.

Tex., Corpus Christi — Voted $60,000 bonds enlarging and extending waterworks. H. Levinson, city engr. Noted July 22.

Tex., Dalhart — Dalhart Water Co. making preliminary plans improving waterworks, incl. water well towers, engine, etc. $15,000.

Tex., Edinburg — Texas Central Power Co., c/o Frost Bldg., San Antonio, plans filtration plant improvements, here. $40,-000. Private plans.

Tex., Hale Center—Voted $45,000 bonds, complete new waterworks plant. Devlin Eng. Co., 100 Central Bldg., Amarillo, engrs. Noted Aug. 12.

Tex., McAllen — Texas Central Power Co., c/o Frost Bldg., San Antonio, plans filtration plant improvements, here. $20,000 or more. Private plans.

Tex., San Antonio—Making preliminary plans about 12 blocks 6 in. mains in Frio City Rd. $15,000 or more. I. Ewing, city engr.

Tex., Stephenville — Made plans revising pipe lines, and new machinery. $10,000. H. B. McAllister, 1315 North 12th St., Waco, engr.

Okla., Talihina — Making preliminary plans new gravity supply waterworks, incl. 17,200 ft. 6 in. c.i. pipe, etc. $60,000. Gantt-Baker Co., 1116 West Main St., Oklahoma City, engrs.

Bids Desired

Conn., East Hartford (br. Hartford)—Aug. 24, by Bd. Comrs. East Hartford Fire Dist., 4½ mi. 14, 16 and 18 in. c.i. pipe and 2 tons special castings. C. H. Olmsted, dist. engr.; adv. E. N.-R. Aug. 19.

N. Y., Brooklyn — Aug. 27, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Quentin Rd., Sedgwick Pl., Glenmore, Laurel, Miller, Troy Aves., etc., here.

N. Y., Long Island City—Aug. 27, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in 55th Dr., Westmoreland, 37th, Clermont and 47th Aves., Remsen, Woolsey, 54th, 69th and 111th Sts., etc., here.

N. Y., New York — Aug. 27, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in McDonough and Dewitt Pls., City Island Rd., Barker, Baychester, Calhoun, Croes, Griswald, Haight Aves., etc., Bronx Boro.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

La., Lake Charles — Sept. 1, by City, waterworks and fire protection facilities for warehouses and wharves of Lake Charles dock board, at Walnut Grove, incl. artesian well, 50,000 gal. tank, fire pump, pipe, etc.

O., Cleveland—Aug. 20, by City, superstructure pumping station at Kirtland pumping station. L. A. Quayle, City Hall, engr.

Mich., Detroit—Aug. 25, by Bd. Water Comrs., 16,585 ft. 8 and 24 in. c.i. mains with necessary gates and special castings in Mill and Plymouth Rds. G. H. Fenkell, 176 East Jefferson Ave., genl. mgr.

O., Toledo — Aug. 23, by Comrs. Lucas Co., 36,431 lin.ft. 6- to 12-in. c.i. mains in Water Supply Lines 90, 111, 117, 121, 126, 132 and 142. A. E. Schmitt, clk.

Wis., Milwaukee — Aug. 27, by R. E. Stoelting comr., 400 hp. horizontal water tube boiler, furnace and setting, mechanical stoker, superheater and draft apparatus in North Point Pumping Station.

Mo., Buffalo—Aug. 25, by City Clerk, approximately 5 mi. 2- to 8-in. c.i. mains and one 75 g.p.m. motor driven deep well pump. Russell & Axon, 412 McDaniel Bldg., Springfield, engrs.

Mo., St. Louis — Sept. 7, by Bd. Pub. Serv., 208 City Hall, 20 in. c.i. mains, etc. in Bway. thence in Gimblin to Waterworks conduit right-of-way connecting 12 in. main in Riverview Dr. and St. Cyr Ave., $30,000, and 12 in. c.i. main in Evans Ave., etc.; also underground steam and condensation return system at Chain of Rocks Waterworks Station, $16,000. J. Pritchard, dir. Noted July 29.

Ark., Conway—City in market for 12 in. c.i. pipe to replace wood pipe. $40,000. E. V. Leverette, Conway, engr.

Tex., Stephenville—Taking bids new pipe line, probably 300 hp. engine, etc. $15,000 or more. H. B. McAllister, 1315 North 12th St., Waco, engr.

Bids Received

Mass., Boston—For 300 tons 24 in. c.i. pipe, from Warren Fdry. & Pipe Co., 201 Devonshire St., Boston, at $53.45 per ton. Noted July 29.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., Aug. 10, mains in Fteley, Gleason, Metcalf Aves., etc., from Sareno Contg. Co., 1959 Calden Ave., $1,995; and in DeLavall, Edson, Gunther Aves., etc., from Norton Eng. & Contg. Co., 510 West 149th St., $13,700. Noted Aug. 5.

O., South Euclid—See "Sewers."

Minn., Dilworth—Village, July 31, waterworks incl. approximately 15,772 ft. 4- to 8-in. c.i. mains, 37 valves, steel tower and tank, pump house and equipment, etc., from Haggart Constr. Co., Fargo, N. D., approximately $44,700. Noted July 8.

Wash., Seattle—Comrs. King Co., July 26, one 24 hp. and one 7.5 hp. unit pumping plant, approximately 18 mi. 4- to 8-in. distribution system, two 50,000 gal. tanks on 50 ft. tower and one 50,000 gal. tank, all wood stave, for Water Dist. 20, from F. Arcorace, 8423 48th St. S., $93,124. Engrs. est. $100,000.

Contracts Awarded

Mass., Needham—Rein.-con. water supply well and pump house, to C. A. Zappe, 5 Lindale Ave., Dedham. Engrs. est $25,000.

Mass., North Easton—Mains in various streets, to G. Ferullo Co., 31 North Sq., Boston. Engrs. est. $15,000. Noted July 29.

Md., Towson—Baltimore Co., 25,670 ft. 6- to 20-in. mains in Liberty Heights Ave., Belair and Philadelphia Rds. Proposal 11-W, also 200 ft. earth excav., 400 ft. tunneling and rammed backfill, and 430 ft. concrete repaving roadway Proposal 10-W, to Ligon & Ligon, 200 East Lexington St., Baltimore, $32,221. Noted Aug. 12.

N. C., Greensboro — Water and sewer lines in various streets, to P. N. Howard, Greensboro, $74,106. Noted July 29.

O., Cleveland—Cuyahoga Co., 33,000 ft. 6- 12-in. c.i. mains in South Miles Rd., Impvt. 1150, to Lodi Concrete Co., Lodi, $146,233. Noted July 29.

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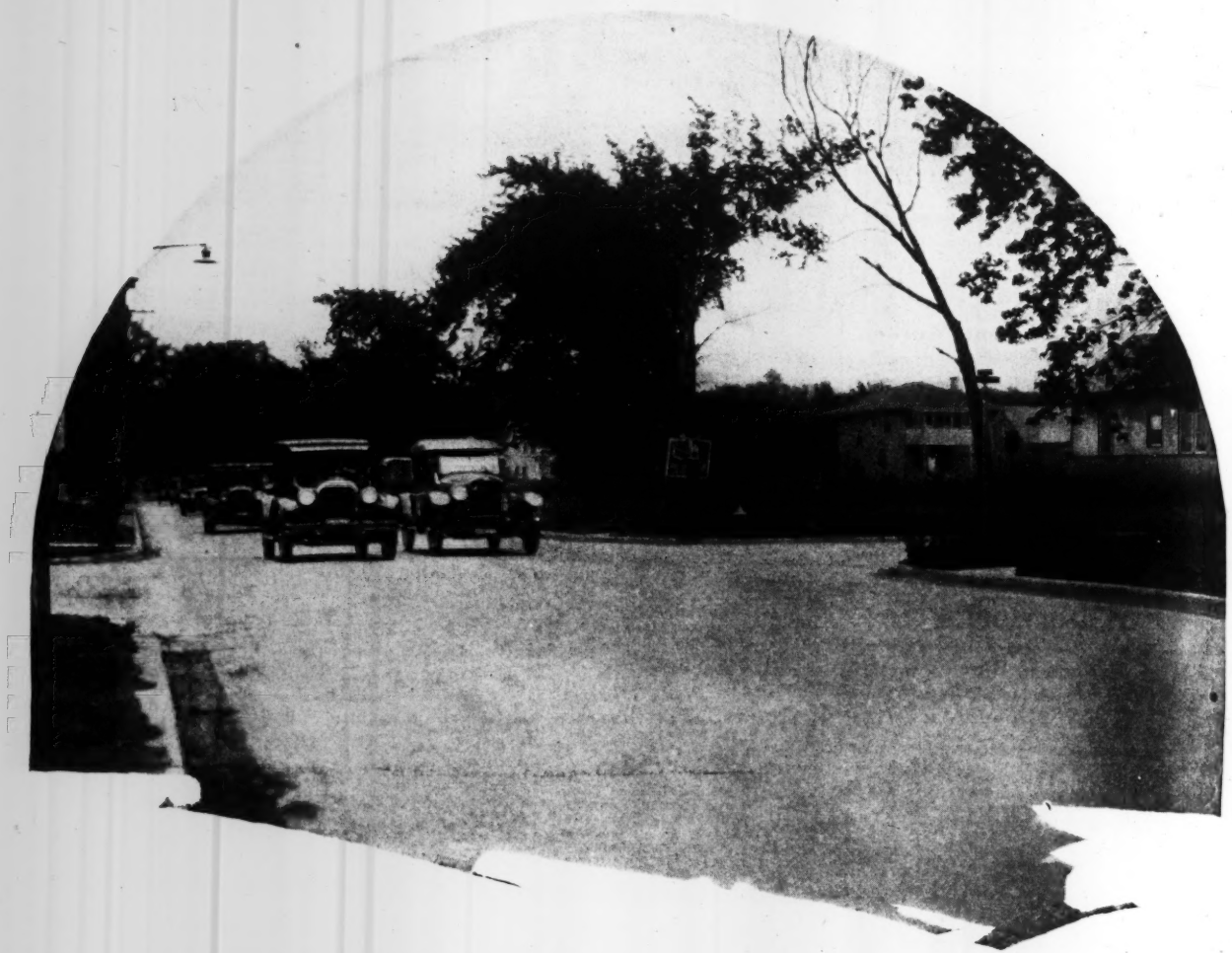

Concrete pavement placed without delay to traffic at intersection of Park Road and State Highway No. 18, La Grange Park, Ill. Built by Standard Paving Co., Chicago, using thoroly tested methods for obtaining quick-hardening concrete with standard **Universal** cement, the same quality **Universal** regularly handled and furnished by E. A. Keller & Son, La Grange, Ill. Edwin Hancock, engineer.

Quick-Hardening Concrete Knocks Out Detour Sign For 100,000 Motorists

Highway Improvement Made in *3 Days* Without Delay to Traffic

The grade on three important intersections along State Highway No. 18, in La Grange Park, Ill., had to be changed. Officials realized that the repairs would inconvenience 100,000 motorists and hurt business if the road were closed the number of days usually allowed for concrete to gain the desired strength.

The engineer and the contractor solved the problem by using thoroly tested methods and standard *Universal* cement, the same quality *Universal* regularly used, to secure strong concrete in *3 days*. Even during this brief period, traffic was only partly disturbed as half the intersection was left intact while the other half was being placed. As a result, no detours were necessary and the public enjoyed use of the complete improvement in *3 days* after work began.

The same methods can be used for all types of construction where rush work is required. For detailed information, simply use the coupon below.

Universal Portland Cement Co.

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

Concrete for Permanence

Universal Portland Cement Co.,
210 South La Salle Street, Chicago

Without obligation, please send me detailed information on methods for securing strong concrete in 3 days with standard **Universal** cement, the same quality **Universal** regularly used.

Name .....

Address .....

8/13/26

Waterworks (Continued)

O., Columbus—See "Streets and Roads."

O., Rocky River—Village, c.i. mains in Center Ridge Rd., to Langenhan Constr. Co., Marshall Bldg., Cleveland, $14,287.

Mich., Detroit — Bd. Water Comrs., 176 East Jefferson Ave., 1½ m.g. elevated steel water tank in Rouge Park, Outer Drive (Lamphere Rd.) and Plymouth Rd., to Ritter-Conley Co., Oliver Bldg., Pittsburgh, Pa., $74,860. Noted July 8.

Ill., Broadview — Bd. Local Impvts., 4,250 ft. 8 in. and 8,135 ft. 6 in. c.i. mains etc. in various streets, to J. L. Frye, Lake Forest, $27,602. Noted July 15.

Wis., Wausau—J. M. Howarth, supt. Waterworks, filtration-aeration plant, to Schafer & Olson, 301 Bay St., Chippewa Falls, $46,714; also valves, sluice gates, etc., to Iowa Valve Co., 319 Washington Ave., Minneapolis, Minn. Noted Aug. 5.

Kan., Effingham—Waterworks improvements, tentatively to J. O'Neill, Leavenworth, $32,129. Noted Aug. 5.

Kan., Ransom—J. A. Ransom, city clk., waterworks, to C. L. Burt, Hutchinson, $14,725; tower and tank, to Pittsburg-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, Ia., $6,475. Noted July 22.

Mo., Charleston—C. L. Joslyn, mayor and E. H. Smith, city clk., tank on tower, to Chicago Bridge & Iron Wks., 37 West Van Buren St., Chicago, Ill.; pumping station, to G. Gassman, Charleston; pumping equipment, to Stewart Mchy. Co., 411 Buder Bldg., St. Louis; and deep well, to Cart Drilling Co., Jonesboro, Ark. Noted June 24.

Okla., Altus—L. L. Smith, city clk., to H. L. Cannady Co., 1122 South Lewis St., Tulsa, and Standard Paving Co., 1742 East 6th St., Tulsa., Ambursen rein.-con. dam at Lugert, $227,407, 18 mi. Redwood pipe supply line $360,216 or creosoted Douglas fir, $344,416, main extensions $30,069, and elevated tank $23,446. Noted July 22.

Okla., Chandler — Waterworks improvements, incl. system of wells, storage reservoir, pumping station, supply line, main extensions, etc., to H. L. Cannady, 1122 South Lewis St., Tulsa, $85,028. Noted Apr. 29.

Ont., Oshawa—Bd. Water Comrs., 8 in. two-stage waterworks pump direct connected to 150 hp. electric motor, to Turbine Equipment Co., 73 King St. W., Toronto. Engrs. est. $7,500.

Sewers

Proposed Work

N. J., Neptune City—City, W. Stoker, chn., plans sewerage system. $185,000. C. Goff, Neptune City, engr.

N. C., Raleigh—See "Waterworks."

S. C., Laurens—See "Waterworks."

Ga., Augusta — Voted $200,000 bonds, sewers in various streets.

Ga., Rossville — Voted $80,000 bonds, sewers in various streets.

Ga., Waycross—Election soon, $150,000 bonds, sewers in various streets.

O., New Lexington — Made preliminary surveys sewage disposal plant. $240,000.

Ill., Wheaton—Takes bids in September 8- to 12-in. vitr. clay sewers in Southwest Sewer Dist. $80,000. Wells Eng. Co., Geneva, engr.

Ia., Sidney—Takes bids about Sept. 15, 35,000 ft. 8- to 18-in. sewers in various streets, and complete sewage disposal plant. $75,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs. Noted July 22.

Minn., Pipestone—Takes bids in September complete sewage disposal plant and outlet sewer in various streets. $50,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, Ia., engrs. Noted June 3.

Neb., Columbus—Election Sept. 7, $87,000 bonds, two main storm sewers in Meridian Ave. between 19th St. and Loup River. W. Becker, city clk.

Mo., Campbell—Election soon, $80,000 bonds, complete sanitary sewerage system. A. C. Moore, Joplin, engr.

Mo., Princeton—Election Aug. 31, $40,600 bonds, sewerage system. Shockley Eng. Co., 800 Graphic Art Bldg., Kansas City, engrs.

Tex., Albany — Making plans disposal plant and 6 x 8 in. pipe. $25,000. F. J. Von Zuben, 611 Dan Waggoner Bldg., Ft. Worth, engr.

Tex., Alto—Voted $40,000 bonds, sanitary sewerage system. Address E. P. Palmer, mayor. Engineer not selected.

Tex., Corpus Christi — Voted $65,000 bonds, extending sewerage system. H. Levinson, city engr. Noted July 22.

Tex., Corpus Christi—W. J. McCollum, Shell Rd. and L. E. Miller, 1510 Leopard St., making preliminary plans sanitary sewers in Highland Estates Sub-Division. $35,000.

Tex., Richmond—Making plans complete new sewage plant. $50,000. Sanitary Eng. Co., 308 Hughes St., Houston, engr.

Tex., Rule — Making plans sewerage system and disposal plant. Devlin Eng. Co., Central Bldg., Amarillo, engr.

Okla., Erick — Defeated $30,000 bonds, sewers in various streets. C. E. Waite, Sayre, engr. Noted Aug. 5.

Okla., Sand Springs—Takes bids after Sept. 15, 1.5 mi. 18- to 96-in. storm sewers in various streets. $187,000. C. Tingley, city engr. Noted July 29.

Okla., Washington—Making preliminary plans 3 mi. new sewerage system. $26,000. Gantt-Baker Co., 1116 West Main St., Oklahoma City, engr.

Wash., Longview — City Council takes new bids about Sept. 2, sewage treating plant and 5 mi. sewers in Impvt. Dist. 16. $108,000. Former bids returned unopened. G. Norris, Kelso, engr. Noted July 15.

Wash., Sunnyside—Making plans approximately 6 mi. 8- to 15-in. sewerage system and disposal plant. Stevens & Koon, Spalding Bldg., Portland, Ore., consult. engrs.

Calif., Monrovia—Plans storm drains in various streets. To exceed $150,000. H. Gierlich, city engr.

Calif., Salinas — Making plans storm sewers in southeast section, Capitol St., etc. $45,000. H. Cozzens, city engr.

Ont., Toronto—Plans 8 in. etc. vitr. tile sewers in Queens Quay, Lane and Wellesley Sts. $27,530. R. C. Harris, City Hall, engr.

B. C., Vancouver — Making plans and soon takes bids completing Pacific St. Interceptor sewer, et al., $250,000 bonds voted for same. C. Brackenridge, City Hall, engr.

Mexico, Mexico City—Government making preliminary plans storm sewers in various streets, here. Address City Engineer.

Bids Desired

Mass., Boston — Aug. 24, by Dept. Pub. Wks., sewerage works in Regina Rd., Dorchester; and Aug. 26, in Dickinson St., Brighton. $25,000. J. H. Sullivan, comr.

Mass., Salem—Sept. 8, by South Essex Sewerage Bd., Ft. Ave., c.i. harbor and river crossings, etc. Contr. 5; also c.i. on land, Contr. 6.; adv. E. N.-R. Aug. 19.

N. Y., Long Island City—Aug. 24, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sanitary sewer in Brinkerhoff Ave. from 180th to 193rd Sts.

N. Y., Mamaroneck—Sept. 7, by Bd. Sewer Comrs. Sewer Dist. 1, Edgewater Rd., Larchmont, sewage pumping plant, etc. A. J. Foote, Hillside Arcade, Larchmont, engr.; adv. E. N.-R. Aug. 19.

N. J., Plainfield—Sept. 7, by Common Council, constructing storm sewer. A. W. Vars, city engr.; adv. E. N.-R. Aug. 19.

Ky., Ft. Thomas—Aug. 23, by City, 17,221 ft. 4- to 18-in. vitr. sewer in Contr. 1 and 29,000 ft. 8 in. vitr. clay sewer in Sect. 3, Ft. Thomas Sewerage System. $142,000. R. Payne, Ft. Thomas, engr.; adv. Aug. 19.

O., Akron—Aug. 26, by W. F. Peters, dir. Pub. Serv. 29,160 ft. 8- to 42-in. vitr. clay sewers in Mull Ave., Hammel, Hillcrest and Dan Sts. $182,600. J. E. Root, Municipal Bldg., engr.

O., Columbus—Aug. 24, by W. H. Duffy, dir. Pub. Serv., 16,928 ft. 6- to 12-in. vitr. sewers, etc., in alleys east of Park Ave. and north of 5th Ave., Mack Rd. and Whitethorn Ave. $46,674.

O., Toledo—Aug. 23, by Comrs. Lucas Co., 28,170 lin.ft. 8- to 27-in. sewers in Sanitary Sewer Dists. 108, 122, 129, 131, 132, 140 and 146. A. E. Schmitt, clk.

O., West Jefferson—Aug. 31, by E. E. Gregg, village clk., 21,950 ft. 8- to 12-in. vitr. sewers, etc., in various streets. $60,000. Jennings-Lawrence Co., Hartman Bldg., Columbus, engr.

Mich., Fordson—Aug. 31, by city clk., City Hall, Chase Road Sewer, Sects. 1 and 2. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs. Noted May 6.

Mich., Grand Rapids—Aug. 25, by F. H. Locke, city mgr., 34,560 ft. 6- to 10-in. sanitary sewer system. F. H. Locke, City Hall, engr.

Wis., Beloit—Aug. 25, by G. E. Heebink, city engr., 3,070 ft. 24- to 54-in. concrete sewers in Tail Race, St. Lawrence Ave. and 4th St., Contr. 12, for City. To exceed $25,000.

Tex., Albany—Aug. 20, by F. W. Carpenter, mayor, sanitary sewers and sewage disposal plant. $25,000. F. J. Von Zuben, 611 Dan Waggoner Bldg., Ft. Worth, engr.

Tex., Denison—See "Contracts Awarded."

Bids Received

O., South Euclid — Village (a) sewers (b) curb connections and (c) watermains in (1) Mayfield Rd. (2) Plainfield Rd. (3) Acacia Dr. (4) Langerdale St. (5) Temblett Terrace, from M. Iafornaro, 2280 Murray Hill Rd., Cleveland, (b1) $15,963 (b2) $1,014 (a4) brick $23,238, segmental block $22,403, and concrete $22,496 (a5) $7,613; from S. N. Khury, 3511 Walton Ave., Cleveland, (c2) $3,907; from Marra Constr. Co., Union Trust Bldg., Cleveland, (a3) $4,288; and from Curro & Whittaker, Engineer Bldg., Cleveland, (c4) $9,450 (c5) $1,722.

Tex., Houston — Storm and sanitary sewers in Navigation Blvd. from Buffalo St., to east city limits, from A. E. Quay Constr. Co., 4717 Jack St., $57,806.

Okla., Oklahoma City—Deep Fork Sewage Disposal Plant, from L. Sanders, 209 est 23rd St., $233,270. Engrs. est. $278,455. Noted June 17.

Calif., Los Angeles—Bd. Pub. Wks., 42,856 ft. 6 in. vitr. clay sewers in Atwater Ave., from J. Grabovac, 1122 Kern Ave., $151,531. Noted Aug. 5.

Calif., Los Angeles — Supervs. Los Angeles Co., Aug. 2, 7.62 mi. sewers in 87th St., etc., from L. Miletich, 610 West 5th St., $80,292. Noted July 22.

Contracts Awarded

Md., Towson—Comrs. Baltimore Co., 47,491 ft. 8- to 12-in. terra cotta sewers and 18,000 lin.ft. house connections in Catonsville, Parkville and Pikesville, to Chesapeake Constr. Co., 216 St. Paul St., Baltimore, $169,897. Noted Aug. 12.

D. C., Wash.—District Comrs., District Bldg., to Aiello Constr. Co., Gough and 4th Sts., Baltimore, sewers in Penn St. $3,769, East Brightwood St. $5,872, and Anacostia Main Interceptor, Sect. 13 $9,486; to A. McCandlish, 1215 Harvard St. N. W., Chevy Chase Parkway Sewer $2,400, and 11th St., replacement sewer $10,800; to M. Cain, 13 6th St. N. E., Kalmia Rd. Service Sewer $15,499. Grand total $47,736.

W. Va., Huntington — For Four Pole Trunk Sewers, 6,300 ft. pipe, to J. L. Gillespie, Huntington, $53,000. Noted July 8.

La., Lake Charles—City Council, 10,570 ft. 10- to 30-in. sewers in various streets, to A. M. Mutersbaugh, Nagem Bldg., $12,725. Noted July 8.

O., Canton—Sanitary sewers in Clarendon Heights, to Nicholas Bros. Co., Canton, $28,010. Engrs. est. $30,000-$35,000.

O., Cleveland—For 1,836 ft. 8 ft., 1,320 ft. 6 ft. 3 in., 1,295 ft. 6 ft., 322 ft. 4 ft. 3 in., 330 ft. 4 ft. and 320 ft. 3 ft. circular C brick sewer in Rocky River Dr., to W. P. Gibbons Contg. Co., 1930 Parkway Ave., $190,535.

O., Cleveland—Cuyahoga Co., 6,000 ft. 8- to 24-in. vitr. clay sewer in Tuxedo Ave., Impvt. 111, to Hanna-Michael Constr. Co., Huron 6th Bldg., $22,330.

O., Cleveland—For 2,091 ft. 12- to 24-in vitr. tile sewer and 661 ft. 3 ft. x 12 in. concrete culvert in Brookfield Ave. also 1,788 ft. 12- to 24-in. vitr. tile sewer and 80 ft. 3 ft. x 12 in. concrete culvert in Guardian Blvd., to W. B. Smith, 1350 West 89th St., $11,171 and $10,574 respectively; also Green Creek Culvert, 420 ft. 4 x 8 ft., concrete to Manson Co., The Arcade, $13,148. Grand total $34,893.

O., Columbus—See "Streets and Roads."

Mich., Detroit—Dept. Pub. Wks., City Hall, vitr. and 2-ring brick sewers in Laterals 4610 and 4648, to Western Constr. Co., 5123 Wesson St., $1,945; Laterals 4615 and 4638, to Louwers & Somerville, 8014 Grand River Ave. $18,800; Laterals 4619, 4621 and 4616, to J. and A. Pontarelli, 1943 Illinois St., $51,341; Laterals 4641, 4644, 4647 and 4651, to Dept. Pub. Wks. City Hall, $16,416; and Laterals 4646, to J. Leo, 1762 Puritan Ave. $1,398. Grand total $89,900. Noted Aug. 5.

Minn., Calendonia — See "Streets and Roads."

Ia., Calmar—For 1,663 ft. 10 in. and 14,126 ft. 8 in. vitr. clay sewers, etc., in various streets, to Dearborn Constr. Co., Waterloo, $12,292; also 2 sewage disposal plants, to Gilleford & Chapman Constr. Co., Forest City, $18,365.

Tex., Denison—City will extend sewerage system in 54 various streets, by day labor. $40,000. C. E. Haydon, Denison, engr.

Tex., El Campo — Complete sanitary sewerage system and disposal plant, to Agar & Gentry, San Benito, $54,078. Noted Dec. 3.

Tex., Shamrock — Complete sewerage system, to Jordan Constr. Co., Plainview, $70,000.

Okla., Tipton—For 59,000 ft. 6- to 12-in. vitr. clay sewers in all streets, septic tank, etc., to Gantt-Baker Co., 1116 West Main

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sewers (Continued)

Okla., Oklahoma City; $63,000 cost plus 10 per cent.

Wash., Tacoma—Trunk sewer in Lincoln Gulch, to J. Warter, Tacoma, $47,890.

Calif., Arroya Grande—Extending sewers in various streets, to Frederickson & Watson, 354 Hobart St., Oakland, $28,180. Noted Aug. 12.

Calif., Chula Vista—Sewerage system and treatment plant, to Drainage Constr. Co., P. O. Box 345, Santa Ana, $32,997.

Calif., Los Angeles—Metropolitan Sewer Dist. 1, Los Angeles Co., 24,518 ft. 24- to 33-in. rein.-con. sewers, to DeWaard & Sons, 211 Alexander St., San Fernando, $246,855.

Calif., Oakland—City Council, 27 and 33 in. vitr. sewer on concrete saddle and timber foundations along Central Pacific right-of-way in East 12th St., to Smith Constr. Co., Syndicate Bldg., $21,600. Noted July 15.

Ont., Toronto—York Twp., vitr. tile and concrete sewers in Bicknell and Gilpin Aves., to McNamara Constr. Co., 53 Yonge St., $30,803; Bude St., Keywest, Harvie, and Henrietta Aves., to W. E. Taylor, 22 Falcon St., $16,118; Branston Rd. and Thornton Ave., to A. Cavotte, 257 Euclid Ave., $5,836; Atlas Ave., to Dept. Pub. Wks., by day labor, $5,836. Grand total $55,670.

Waste Disposal

Proposed Work

Ont., Weston — Town Council making plans installing concrete and brick chimney, incinerating furnaces. $25,000. H. G. Masson, Weston, clk.

Contracts Awarded

N. Y., New Dorp (Sta. Staten Island)—J. A. Lynch, pres. Richmond Boro, Boro Hall, St. George, building and runway, furnaces, chimney, etc., for garbage incinerator, here, to Nye Odorless Crematory Co., Georgia Casualty Bldg., Mulberry St., Macon, Ga., $167,650.

Ky., Louisville—Bd. Pub. Wks., garbage incinerator, to H. Bickel Co., 443 Garden St., $146,425. Noted June 3.

Bridges

Proposed Work

B. C., Cedarvale—York Twp., Toronto, Ont., and Village of Forest Hill, plan 1,400 ft. rein.-con. high level bridge, 42 ft. pavement, etc., here. $190,000. James, Proctor & Redfern, 36 Toronto St., Toronto, Ont., engrs.

O., Canton—Stark Co. soon takes bids new bridge, on Harrisburg Alliance Rd. $50,000.

O., Rootstown—Portage Co. (Ravenna), plans new bridge south of here. $62,000. Cost to be borne by Pennsylvania R.R. and Portage Co.

Tex., Alice—See "Streets and Roads."

Tex., Alpine—See "Streets and Roads."

Tex., Anderson — See "Streets and Roads."

Tex., Batesville — See "Streets and Roads."

Tex., Caldwell—See "Streets and Roads."

Tex., Carrizzo Springs — See "Streets and Roads."

Tex., Floresville — See "Streets and Roads."

Tex., Groveton—See "Streets and Roads."

Tex., San Antonio — See "Streets and Roads."

Tex., Waxahachie — See "Streets and Roads."

Okla., Blackburn — State Hy. Dept., Oklahoma City, making preliminary plans 2 span 246 ft. steel truss bridge on concrete piers over Skeeds Creeke, Pawnee Co. $35,000. J. M. Page, highway engr.

Okla., Sand Springs—State Hy. Dept., Oklahoma City, making preliminary plans 8 span 1,800 ft. truss bridge over Arkansas River, here, Tulsa Co. $400,000. J. M. Page, highway engr.

Calif., Santa Cruz—Santa Cruz Co. made plans 131 ft. arch and eight 20 ft. girder span rein.-con. bridge, on Santa Cruz Boulder Creek Highway. L. Bowman, Santa Cruz, co. surv.

Bids Desired

Mass., Barnstable — Aug. 24, by Dept. Pub. Wks., Boston, concrete bridge and approaches on 550 ft. highway, here. $25,000. W. F. Williams, comr.

N. Y., New York—Sept. 16, by A. Goldman, comr. Plants & Structures, Municipal Bldg., reconstructing High Bridge over Harlem River between Manhattan and Bronx Boros. Noted Jan. 28.

N. J., Newton—Aug. 31, by Bd. Freeholders Sussex Co., two 72 ft. span plate girder bridges, in Stillwater Twp. H. Snook, co. engr.; adv. E. N.-R. Aug. 19.

Michigan — Aug. 26, by E. R. Benkert, resident engr., Port Huron, F. A. Bridge 740901, three 45 ft. spans, steel deck girder, Sanilac Co., for State Hy. Dept., Lansing. Steel for above, to McClintic Marshall Co., 1242 Book Bldg., Detroit, $5,554.

Minnesota—See "Streets and Roads."

Kan., Bogue—Aug. 26, by Clerk Graham Co. (Hill City), twenty 21 ft. span timber, five 80 ft. span truss and thirteen 30 ft. span concrete girder bridges on Federal Aid Project 340-A, ½ mi. from here.

Kan., Ft. Scott — See "Streets and Roads."

Missouri—Aug. 25, by State Hy. Dept., Jefferson City, six 12 ft. seven 20 ft., two 24 ft. and three 16 ft. rein.-con. slab, five 30 ft. and four 45 ft., rein.-con. deck girder, four 59 ft. steel truss, two 12 ft., fifteen 20 ft. and two 45 ft. I-beam truss spans in 14 counties; and widening 300 ft. I-beam trestle on Sta. 653 plus 87, in Livingston Co. B. H. Piepmeier, ch. engr.

Tex., Anderson — See "Streets and Roads."

California—Aug. 30, by State Hy. Comn., Sacramento, one 234 ft. rein.-con. open spandrel arch and eight 24 ft. girder approach span bridge over Dog Creek, 1 mi. south of Delta. R. M. Morton, Forum Bldg., Sacramento, engr.

Bids Received

Rhode Island — State Bd. Pub. Rds., Providence, Aug. 4, bituminous macadam paving Contr. 2612 in Coventry, from Perini & Ampolinni, Plainville, Conn., $56,551, Contr. 2615 in Exeter, and sheet asphalt paving Contr. 2616 in East Providence, from Lane Constr. Corp., 37 Colony St., Meriden, Conn., $203,177 and $56,551 respectively; also waterbound macadam paving Contr. 2613 in Little Compton, from B. Perini & Son, Ashland, Mass., $27,698.

Pa., Coraopolis — Controller Allegheny Co., Court House, Pittsburgh, July 28, masonry and approach fill for Coraopolis Bridge 2, over Ohio River back channel, Ferree St., here, from Foundation Co., Fulton Bldg., Pittsburgh, $136,403. Engrs. est. $150,000.

Michigan — State Hy. Dept. at office Genesee Co., Flint, S. R. Bridge 251301, five 70 ft. span steel deck girder, from McClintic Marshall Co., 1242 Book Bldg., Contr. 1 $20,673; and from L. A. Davidson, Flint, Contr. 2 (without cement) $63,925. Noted July 29.

Minn., Minneapolis—See "Materials."

Calif., Los Angeles—Rein.-con. and steel truss girder bridge over Los Angeles River, Hyparian Grade, from Salih Bros., 505 Detwiler Bldg., $110,732.

Contracts Awarded

Connecticut—See "Streets and Roads."

N. Y., Elmhurst (Ind. sta. Flushing)—Transit Comn., 270 Madison Ave., New York City, bridge over Queens Blvd., near here, to W. F. Kenny Co., 44 East 23rd St., New York City, $296,311.

W. Va., Mannington — Rein.-con. bridge over Buffalo Creek, to Shaid Contg. Co., Elkins, $25,200. Noted Sept. 24.

Kentucky — State Hy. Dept., Frankfort, **(F.A.P. means Federal Aid Project and S.A.P. means State Aid Project)**, two 100 ft. and one 102 ft. span concrete arch bridge, also two 30 ft. rein.-con. girder bridge at Olive Hill, S.A.P. 47-F, Carter Co., to N. E. Stone & Co., Madisonville, $64,555; two 50 ft. span rein.-con. bridge over Little Point Creek, East Point, S.A.P. 6-C, Floyd Co., to Mason Constr. Co., West Point, $28,443; rein.-con. piers and abutments and two 20 ft. span rein.-con. bridge, at Big Clifty, S.A.P. 12-B, Grayson Co., to F. W. Graham, Pineville, $16,476; two 124 ft. span steel superstructure for same, to Vincennes Bridge Co., Vincennes, Ind., $20,489; 450 ft. concrete span and approaches over Little River at Cadiz, F.A.P. 11-C, Trigg Co., to Alexander Bros., Cadiz, $31,074. Grand total $161,037. Noted July 1.

Ky., Allen—State Hy. Dept., Frankfort, rein.-con. substructure for two 135 ft. and one 190 ft. span steel bridge over Levisa Fork, on State Highway Project 28-B, here, Allen Co., to Atlantic Bridge Co., Greensboro, N. C., $31,088; superstructure for same, to Vincennes Bridge Co., Vincennes, Ind., $44,454. Noted July 1 under "Kentucky."

Indiana—J. D. Williams, dir. State Hy. Comn., Indianapolis, bridges in Porter, Hancock and Shelby Counties, to Vincennes Bridge Co., Vincennes $58,671; Hancock and Jasper Counties, to Clark & Minnix, Flora $47,769; DeKalb Co., to D. Jenkins, Terra Haute $17,698, Pike Co., to R. P. Olinger, Huntingburg $17,381, Rush Co., to W. H. Grammner, Evansville $24,613, Blackford and Grant Counties, to Thorp & Thorp, Fountain City $12,353, Wabash Co., to R. I. Schutt, Greencastle $6,963, Marion and Hancock Counties, to Clements & Veal, Williamsburg $10,414, Rush Co., to Wasnidge & Leonard, Jasonville $16,622, and Boone Co., to W. Calvert, Sheridan, $6,713; also painting bridge over Wabash River, Vigo Co., to T. S. Black, Knightstown, $11,870. Grand total $231,067. Noted Aug. 5.

Michigan—See "Bids Desired."

Mich., Kalamazoo — H. A. Bland, city purch. agt., 240 ft. rein.-con. bridge across Kalamazoo River, on East Ave., to Miller-Taylor Co., Waterloo, Ia., $97,880. Noted July 8.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, five 28 ft. span concrete slab bridge, on Sect. 17-B, one 60 ft. span concrete through girder and one 60 ft. span concrete deck girder bridge on Sect. 19-B, also one 40 ft. and one 24 ft. span concrete bridge on Sect. 20-B, all Route 18, La Salle Co., to Federal Bridge Co., B. T. Bldg., Des Moines, Ia. $39,685, bridges on Route 7, Sect. 31-B, La Salle Co., to Porter McCully Constr. Co., Mackinaw $20,203, on Route 7, Sect. E-1, La Salle Co., to Capitol Constr. Co., 1207 Cherry St., Des Moines, Ia. $40,411, on Route 19, Sect. 25-B, McHenry Co., to R. Mann, 2331 Charles St., Rockford $57,948, on Route 31, Sect. 1-B, Adams Co., to O. Stewart, Urbana $12,926, and on Route 24, Sect. 8-B and C, Sangamon Co., to W. C. Johnson, Belleville $62,960; overhead bridges on Route 2, Sect. 73-V, Lee Co., to A. P. Munson, Marion, Ia. $14,308, and on Route 8, Sect. 40-V, Knox Co., to M. R. Deyo, Peoria $11,809; overhead crossing on Route 26, Sect. 4-V, Ogle Co., to G. C. Fairclo, Champaign $32,255; and culvert on Route 7, Sect. 12-B, Bureau Co., to Boes & Higman, Wyanet $1,110. Grand total $293,615. Noted May 27 and June 24.

Ia., Clarion — Wright Co., 3 span pony truss bridge, to Swanson Constr. Co., Webster City, $28,364; and I-beam bridge, to Hildebrand & Kraugh, Belmond $2,297.

Ia., Sidney—Fremont Co., 1 high truss bridge, to G. W. Condon, 514 Federal Reserve Bldg., Omaha, Neb., $23,811; 14 culverts and 1 I-beam bridge, to Wilson Concrete Co., Red Oak, $20,000; 27 culverts, to Wickham Bridge & Pipe Co., Council Bluffs, $27,200; and 2 box culverts, to F. O. Akin, Corning, $2,400. Grand total $73,411.

Ia., Sioux City—See "Unclassified."

Kan., Columbus—Cherokee Co., 150 ft. concrete arch bridge on Federal Aid Project 255-B, to Maxwell Constr. Co., Columbus, $24,155; two 20 ft. span slab bridges, and chat surfacing 0.039 mi. same road, to Cooper & Sturgeon, Girard, $5,606 and $1,159 respectively; also concrete surfacing 0.189 mi. Federal Aid Project 142-D, to Dubois & Co., Pittsburg, $5,016. Grand total $35,936. Noted July 15.

Kan., Independence—Clerk Montgomery Co., one 120 ft. and three 100 ft. span concrete arch bridge, also grading, etc. 0.229 mi. on Federal Aid Project 199-C, to Fifield Constr. Co., Waterloo, Ia., $63,246. Noted July 8.

Kan., Marion—See "Streets and Roads."

South Dakota—See "Streets and Roads."

California—State Hy. Comn., Sacramento, rein.-con. girder bridge, San Diego Co., to J. Short, Weed, $30,762.

Calif., Los Angeles—Constructing bridge over Los Angeles River, at 7th St., to Lange & Bergstrom, Inc., 801 Washington Bldg., $405,494. Noted May 20.

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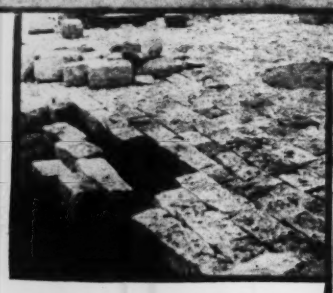

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Dams

Proposed Work

O., Dayton—Civitan Club, H. E. Gray, pres., 3rd Natl. Bank Bldg., plans two 500 ft. concrete dams, 6 ft. high across Miami River, providing ponds for recreational purposes. $175,000. Engineer not selected.

Texas — See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Bids Desired

Ont., Hanover—See "Contracts Awarded."

Contracts Awarded

Conn., Andover — Andover Lake Corp., 200 ft. concrete dam, 12 ft. high, to Manchester Constr. Co., Manchester, about $50,000.

Conn., Manchester — Andover Lake Co., 200 ft. concrete dam, 12 ft. high, and clearing land for artificial lake, to Manchester Constr. Co., 875 Main St. Engrs. est. $40,000.

Tex., San Antonio—See "Buildings—Industrial."

Ont., Hanover—Canada Cement Co., 273 Craig W., Montreal, will rebuild dam, partially wrecked by floods, by day labor, under direction of Kilbourn & Edmunds, engrs., c/o owner. $30,000. Noted May 27.

Railways

Proposed Work

Pennsylvania — See "Buildings — Industrial under Altoona."

Ont., Niagara Falls — Canadian Natl. R. R. Co., Montreal, Que., C. S. Gzowshi, ch. engr. (of construction) C. B. Brown, ch. engr. (operating), and Wabash R.R. Co., Railway Exch. Bldg., St. Louis, Mo., R. H. Howard, ch. engr., plan new yards, here. $500,000.

Bids Desired

Kansas — See "Buildings — Industrial under Coffeyville."

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

La., Lake Charles—Gravity D. D. No. 1 Calcasieu and Jefferson Davis Parishes, F. C. Wait, comr., takes bids in the fall, 30 mi. gravity drainage system, draining 22,-660 acres. $120,000. T. H. Mandell, Lake Charles, engr.

Ia., Le Mars—Plymouth Co. made plans 3.5 mi. open ditch, approximately 150,000 cu.yd. excav. in D. D. 3. $15,000. G. S. Huxtable, Le Mars, engr.

Ark., Texarkana—Miller Co. plans creating district to reclaim 36,000 acres Red River bottom land. $240,000.

Texas—State, Presidio Co. (Marfa) and Federal Aid making preliminary plans irrigation dam 1,000 ft. high, impounding 50,000,000 acre feet water, in Marfa. $60,-000.

Tex., Wichita Falls — Third Irrigation Dist., Wichita Co., making preliminary plans irrigating 80,000 acres between Lake Wichita and Wichita River. $1,750,000. J. M. Isbell, Wichita Falls, co. engr.

Bids Desired

Ill., Chicago Heights—Sept. 2, by Comrs. Lincoln Lansing Drainage Dist, c/o J. Eenigenberg, Glenwood-Lansing Rd. and Burnham Ave., ditching, bridging, etc. To exceed $90,000. Ashdown, Williams & Co., 1530 Halsted St., engrs.; adv. E. N.-R. Aug. 19.

Ore., Klamath Falls — Sept. 1, by Irrigation Bd. Klamath Falls, relining Klamath Irrigation Dist. near Henley. $30,000.

Contracts Awarded

N. Y., Brooklyn — M. Cosgrove, comr. Docks, Pier "A," foot Battery Pl., New York City, dredging 8,000,000 cu.yd. channel from Barren Island to Mill Basin, Jamaica Bay, to Atlantic, Gulf & Pacific Co., 13 Park Row, New York City, $773,600. Noted July 29.

O., Cleveland — Bulkheading, incl. wood piles and stone work at Edgewater Park, to Great Lakes Dredge & Dock Co., Williamson Bldg., $365,000.

Ia., Corning—Adams Co., about 167,836 cu.yd. excav. in Middle Nodaway D. D. 2, to Strom Constr. Co., Gary, Minn. at $0.0845 per cu.yd.

Ia., Waukon—Allamakee Co., straightening 8.7 mi. Upper Iowa River, 400,000 cu.yd. excav., etc., to C. E. Walker, Cedar Rapids, $42,000.

Ark., Pine Bluff—Salt Bayou Sub-Dist. 1, 2.25 mi. drainage ditches, 61,000 cu.yd. excav., to J. Kochtitsky, England. Noted Apr. 1.

Tex., Brownsville — El Jardin Dist. Cameron Co. drainage system, incl. removing 4,000,000 yd. earth, to Callahan & Crawford, Brownsville, approximately $1,-000,000. Noted July 1.

Ont., Teeswater—K. McKenzie, clk. Culross Twp., 145,000 cu.yd. earth and rock excav. in Teeswater River, to McNamara & Co., Toronto, $70,000. Noted July 22.

Streets and Roads

Proposed Work

New Hampshire—State Hy. Dept., Concord, plans gravel surfacing 0.767 mi. road in Winnepesaukee, Belknap Co. $25,000. F. E. Everett, highway comr. O. M. James, Northwood Narrows, div. engr.

N. J., Mt. Holly—Burlington Co. plans graveling 5 mi. road in Woodland Twp. $25,000. H. B. Smith, Mt. Holly, engr.

N. J., Trenton—Mercer Co. plans concrete paving 1,600 ft. Klockner Rd., 36 ft. $26,000. H. Harris, Trenton, egr.

N. C., Smithfield—Plans paving and sidewalks on various streets.

Miss., Canton—Madison Co. voted $38,-000 bonds, constructing road.

Miss., Starkville—Oktibbeha Co. takes bids about Nov. 1, grading, gravel surfacing, etc., 20 mi. roads in Starkville Separate Road Dist., 16 and 22 ft. $200,-000 bonds voted.

La., Baton Rouge — East Baton Rouge Parish rejected bids grading, curbing and concrete paving 39,000 sq.yd. North Blvd. and Clay Ave. Will readvertise. T. Swart, Court House, engr.

La., Delhi — Plans rein.-con. sidewalks and permanent paving about 11 blocks various streets. $40,000. C. D. Evans, Levy Bldg., Shreveport, engr.

Kentucky—State Hy. Dept., Frankfort, rejected bids July 26, surfacing 10.371 mi. Jenkins-Haymond Rd., State Aid Project 6-E and F, Letcher Co. Will readvertise. E. N. Todd, highway engr. Noted July 8.

Ky., Elkton—Todd Co. voted $300,000 bonds, constructing road.

O., Cincinnati — Making plans concrete repaving, etc., 36,000 sq.yd. Chandler St., Kellogg and Selim Aves. $233,877. C. O. Sherrill, City Hall, engr.

Ind., Anderson — Madison Co. plans issuing $33,000 bonds, concrete paving approximately 1 mi. Pendleton Ave., 24th and 8th Sts., Elwood, 26 ft. M. H. Steele, Anderson, engr.

Michigan—R. A. Beers, resident engr., Kalamazoo, takes bids about Aug. 23 concrete paving 9 mi. F. A. 236, 20 ft., Berrien Co. for State Hy. Dept., Lansing.

Michigan—A. M. Hopperstead, resident engr., Crystal Falls, takes bids about Aug. 23, concrete or bituminous macadam 4.5 mi. T. L. 15-23, 20 ft., Houghton Co., for State Hy. Dept., Lansing.

Michigan — C. Vinton, resident engr., Jackson, takes bids about Aug. 20, concrete paving 5.5 mi. F. A. 144, Sect. B., 20 ft. Eaton Co., for State State Hy. Dept., Lansing.

Mich., Fordson—Making plans concrete curbing, sewers and one course concrete paving 47,603 sq.yd. Assessment Dist. 158, 159 and 157. Hubbell, Hartgering & Roth, 2640 Buhl Bldg., Detroit, engrs.

Ill., Belleville—Soon takes bids grading, curbing, concrete paving, etc., 16 blocks various streets. $47,150.

Ill., Champaign — Making preliminary plans grading, curbing, guttering, sidewalks, sewers and rein.-con. paving 11,077 sq.yd. Bradley, Harris and western portion Armory Aves.; and grading, 12,100 ft. concrete and 710 ft. brick sidewalks and two 5 x 14 ft. bridges on Northwestern Sidewalk System. $64,140.

Ill., East St. Louis—Making preliminary plans grading, curbing and concrete paving 29th and 37th Sts. $57,660. W. McK. Brown, City Hall, engr.

Ill., Galesburg—Plans grading, curbing, guttering and vertical fibre brick paving 11 blocks Tompkins, South Cedar, West 1st and East Berrien Sts. $59,376. A. L. Richey, City Hall, engr.

Ia., Cedar Rapids—Making plans 7 in. rein.-con. paving approximately 9,300 sq.yd. 16th Ave., 2nd and K Sts. W. $25,-000. L. J. Storey, city clk.

Minn., St. Paul—G. J. Ries, aud. Ramsey Co., making plans paving, etc. Concord St. $100,000, and east county line North St. Paul-Wildwood Rd. $72,000; grading, paving, etc. Ft. Snelling Reservation Rd. connecting with Minnesota Trunk Highway 52, $70,000; grading, graveling, etc. Capital Highway (jointly with Dakota Co.) $61,-500, Hodgson Rd. extension between county line and Trunk Highway 63 $50,000; widening and graveling County Rd. C between Arcade St. East County line $40,000, and Road G between Cleveland Ave. and Rice St. $30,000; also grading south end of Anoka cut-off between Hamline-Lexington Aves. and University Ave. extension $25,-000; and constructing undergrade crossing beneath railroad $50,000. P. N. Coates, co. surv.

Kan., Kansas City—Wyandotte Co. soon takes bids improving 2.5 mi. Leavenworth Rd., 18 ft. To exceed $25,000. O. K. Williamson, Kansas City, engr.

Montana — State Hy. Comn., Helena, making plans grading and minor structures on 15.25 mi. National Parks Highway, Flathead Co., 22 ft. $100,000.

Mo., Clayton—St. Louis Co. soon takes bids grading and concrete paving 26 mi. Belt Highway, 18 ft. $900,000. R. Jablonsky, Court House, engr.

Mo., Kansas City—Soon takes bids brick or concrete paving, etc., Troots Ave. between 33rd and 47th Sts., and Troots between Kansas City Terminal right-of-way, also 28th and Main Sts. between 9th and 20th Sts.; also asphaltic resurfacing, etc., McGee St. traffic way between 24th and 30th Sts. To exceed $100,000. R. W. Waddell, City Hall, engr.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, made plans asphalt, warrenite bitulithic, amiesite or asphlatic concrete paving, etc., Nottingham Ave. between Macklind and Hampton Sts. $39,000-$41,700; and asphalt, asphaltic concrete, amiesite, warrenite or rein.-con. paving, etc., Oregon Ave. between Dakota St. and Neosho Ave. $9,900-$10,700. W. W. Horner, 300 City Hall, engr.

Mo., Springfield—Soon takes bids concrete paving, etc. 13,564 sq.yd. Delaware Ave., and 3,095 sq.yd. Brower St. S. R. Fisher, City Hall, engr.

Mo., Springfield—Soon takes bids paving, etc., 11,529 sq.yd. Locust St., and 2,285 sq. yd. Newton St. S. R. Fisher, City Hall, engr.

Ark., Little Rock—Making preliminary plans grading, curbing, and paving 18 blocks Paving Dist. 423. $60,000. Ford & MacCrea, 215 Gazette Bldg., engrs.

Tex., Alamo—Making plans 1 in. asphalt on 6 in. gravel surfacing 60 blocks various streets. $50,000. Engineers name withheld.

Tex., Alice—Jim Wells Co. making plans grading, bridging, and rock asphalt on limestone paving, etc., 9.788 mi. Highway 12-A, 18 ft. $248,600. F. E. Hess, Alice, co. engr.

Tex., Alpine — Brewster Co. making plans grading and bridging 11.818 mi. Highway 3, from Sta. 3079 to 3703. $139,-000. J. Stovell, Alpine, engr.

Tex., Anderson — Grimes Co. making plans grading, bridging, etc., 14 mi. Highway 90, 26 ft. $114,800. O. A. Seward, Jr., Navasota, engr.

Tex., Batesville—Zavalla Co. voted $550,-000 bonds grading, bridging and gravel surfacing Highway 55. G. M. Jowers, co. engr. Noted July 15.

Tex., Caldwell — Burleson Co. making plans grading, bridging, etc., 8 mi. Highway 102, 26 ft. $54,000. A. McCormack, Caldwell, div. engr.

Tex., Carrizo Springs — Dimmitt Co. plans grading, bridging and surfacing 30 mi. Uvalde-Laredo Rd., Highway 55, 18 ft. $560,000 bond issue. J. G. Lott, Carrizo Springs, co. engr.

Tex., Corpus Christi — Voted $225,000 bonds, paving and widening various streets. H. Levison, city engr.

Tex., Floresville — Wilson Co. making plans grading, bridging and bituminous macadam paving 10.13 mi. Highway 16 Federal Aid Project 434-B, 18 ft. $210,-000. F. E. Hess, Floresville, engr.

Tex., Groveton — Trinity Co. making plans and soon takes bids grading, bridging, etc., 9.773 mi. Highway 106, 26 ft. $51,300. J. O. Booker, Lufkin, resident engr.

Tex., La Pryor — Zavalla Co. voted $560,000 bonds, paving 32 mi. Highway 65. W. F. Hutson, Crystal City, div. highway engr.

Streets and Roads (Continued)

Tex., Mission—Plans paving 40 blocks various streets. $60,000. Ewing & Congdon, Mission, engrs.

Tex., Panhandle—Voted $158,000 bonds, road work. Address J. H. Stadler, Brackettville, co. judge.

Tex., San Antonio — Bexar Co. making plans grading, bridging, gravel and bituminous paving 5.15 mi. Highway 81, 18 ft. $35,000. A. C. Pancoast, San Antonio, co. engr.

Tex., Terrell—Plans paving West College St. from North Rockwall to Anne Sts. $50,000. Engineer not selected.

Tex., Waxahachie — Ellis Co. making plans grading, bridging, etc., 8.766 mi. Highway 6, Federal Aid Project 478-E, 26 ft. $81,300. W. A. Spalding, Waxahachie, co. engr.

Tex., Wellington—Plans paving various streets. $83,000. A. M. Hutcherson, secy. Engineer not selected.

Okla., Ardmore—Plans grading, curbing and concrete paving 8,700 sq.yd. North Washington St. $28,240. S. Mathews, Ardmore, engr.

Okla., Canadian—Made surveys grading and concrete paving 21,780 sq.yd. Highway 2. $65,000. J. M. Page, Capital, Oklahoma City, engr.

Okla., Bartlesville—Making plans grading, curbing and concrete paving 15,310 sq.yd. Cherokee Hills addition. $47,100. J. E. McCormick, Bartlesville, engr.

Calif., Fairfield — Solano Co. making plans constructnig roadway from Vallejo side of new Vallejo bridge above foot of hill to ferry at Morrow Cove. $50,000 or more. F. A. Steiger, Fairfield, co. surv.

Okla., Tulsa — Plans grading, curbing and concrete paving 12,200 sq.yd. Detroit Ave. $67,500. C. Schultz, City Hall, engr.

Calif., Riverside—Supervs. Riverside Co. plans resurfacing 31 mi. Whitwater-Indio Point Rd.; 3 mi. portion Iowa Ave.; 20 mi. Elisnore-San Diego Co. line Rd.; 10 mi. Perris-Elisnore Rd.; and 2 mi. Hemet-San Jacinto Rd.

Calif., San Diego — Common Council making plans 29,400 sq.ft. 5 in. asphaltic concrete and 153,014 sq.ft. 5 in. concrete paving, etc. C and 28th Sts. F. A. Rhodes, city engr.

Calif., San Rafael—Supervs. Marin Co. made plans grading and willite asphalt on concrete paving 53,775 sq.yd. Ridgeway Park, Fairfax Dist.; also asphaltic concrete paving, etc. 28,047 sq.yd. Butterfield Rd. J. C. Oglesby, San Rafael, co. surv.

Ont., Hamilton — City Council plans widening Hughson St. $150,000. W. C. McFaul, City Hall, engr.

Ont., Toronto—Plans bitulithic paving Heydon Park, $12,074; asphalt paving Lighthill, Kintyre and Dartnell Aves., $13,-715; concrete paving 2 lanes and Glenview Ave., $13,462; brick paving Victoria Park Ave., $8,038; also block and bitulithic paving Carling Ave., $7,250. R. C. Harris, City Hall, engr.

Ont., Toronto — Made plans concrete curbing, sheet asphalt on 6 in. concrete paving Chatsworth Dr., Cheritan and Courtland Aves., $37,420; concrete paving Lane St., $7,952; and concrete sidewalks on Birch Ave. $99. R. C. Harris, City Hall, engr.

Ont., Windsor—City Council plans sheet asphalt on concrete paving approximately 35,000 sq.yd. Ouellette St. $186,673. M. E. Bren, City Hall, engr.

Bids Desired

Massachusetts—Aug. 24, by Dept. Pub. Wks., Boston, grading, subbasing, etc., 23,088 ft. highway in Williamstown; and bituminous macadam paving 5,111 ft. in Seekonk. W. F. Williams, comr.

N. Y., Long Island City—Aug. 24, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., granite block on concrete paving Meadow St.; grading and sheet asphalt on prepared macadam paving Black Stump Rd.; sheet asphalt on concrete paving Rockaway Blvd.; and grading, curbing, sidewalks, etc. on Sutphin Blvd., Lincoln St., Corona and Van Wyck Aves., etc.

Pa., Meadville — Aug. 24, at Office City Clerk, vertical brick and asphalt filler on concrete paving, etc. approximately 2,760 sq.yd. various streets. G. S. Maxwell, clk.; adv. E. N.-R. Aug. 19.

D. C., Wash. — Aug. 24, by Bd. Dist. Comrs., District Bldg., sheet asphalt widening and repaving various streets; adv. E. N.-R. Aug. 19.

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Virginia—Aug. 31, by State Hy. Dept., Richmond, grading, etc. 8.77 mi. Projects S-278-B and S-445-A and C. C. S. Mullen, ch. engr.; adv. E. N.-R. Aug. 19.

Florida—Aug. 27, by State Hy. Dept., Tallahassee, constructing 8 in. Florida lime rock compact base on 7.11 mi. Road 5, Brooksville-Citrus Co. line Rd., Project 679, Hermando Co. J. L. Cresap, highway engr.

Louisiana—Sept. 2, by State Hy. Comn., Baton Rouge, Warrenite bitulithic, bituminous concrete (Modified Topeka Type) sheet asphalt, cold mixed limestone rock asphalt, brick on concrete or concrete paving 6.947 mi. Alexandria-Lecompte Highway, Federal Aid Project 162-A, Rapids Parish; graveling 19.5 mi. Lake Providence-Epps Highway, State Project 457, East Carroll Parish, 14.195 mi. Kentwood-Chipola Highway, State Project 527 St. Helena Parish; also embankment, etc. on 8.067 mi. New Orleans-Ft. Jackson Highway State Project 346 C-1 Plaquemines Parish. W. B. Robert, Reymond Bldg., Baton Rouge, highway engr.

La., Lake Charles — Aug. 30, by E. L. Gorham, comr. Dept. Pub. Wks., City Hall, grading, curbing and concrete paving 100,-000 sq.yd. various streets.

Kentucky—Sept. 3, by State Hy. Dept., Frankfort, reconstructing and surfacing 5.7 mi. Falmouth-Alexandria Rd., State Aid Project 21½-A, Pendleton Co. E. N. Todd, highway engr.

O., Cincinnati—Aug. 27, by Comrs Hamilton Co., grading and tar bound macadam paving 12,000 sq.yd. Rich Rd. $25,000; concrete paving 14,300 sq.yd. Wesselman Rd., $85,956. E. A. Gast, Court House, engr.

O., Norwalk—Aug. 20, Comrs. Huron Co., waterbound macadam paving, etc., 4,830 ft. Northwood Rd., 16 ft. $26,000.

Michigan—Aug. 26, A. M. Hopperstead, resident engr., Crystal Falls, concrete or penetration macadam paving 53,663 sq.yd. T. L. 15-23 Houghton Co., for State Hy. Dept., Lansing.

Michigan—Aug. 26, by A. M. Hopperstead, resident engr., Crystal Falls, concrete paving 2.037 mi. T. L. 12-45, 18 ft., Dickinson Co., for State Hy. Dept., Lansing.

Mich., Ionia—Aug. 24, by A. M. Williams, engr. Ionia Co., two course graveling 4.048 mi. County A. D. 35, 9 ft.

Mich., Mt. Clemens — Aug. 25, by W. Lehner, engr. Macomb Co., two course graveling 4.25 mi. County A. D. 103, 16 ft.

Ind., Anderson—Sept. 15, by Comrs. Madison Co., concrete paving ½ mi. John St., 32 ft. and 24 ft. $26,000; curbing and concrete paving 1½ mi. B and various streets in Elwood, 30 ft., $75,000. A. Steele, Anderson, engr.

Wisconsin—Aug. 24, by State Hy. Comn., Div. Office 2 Stephenson Bldg., Milwaukee, improving Milwaukee-Pewoukee Rd., Federal Aid Project 349-C, Milwaukee Co., 23,032 cu.yd. earth excav., and 27,409 sq. yd. concrete paving, etc. J. T. Donaghey, Madison, engr.

Minnesota—Aug. 31, by State Hy. Comn., St. Paul (**F.A.P. means Federal Aid Project and S.P. means State Project**), grading, etc. 88,200 cu.yd. S.P. 3-46, Sect. 2, F.A.P. 307, Newport-Hastings Rd. $25,000 and 142,000 cu.yd. S.P. 10-49, F.A.P. 382, Wayzata-Long Lake Rd. $30,000; grading 331,000 cu.yd. and constructing Bridge 4612 on S.P. 5-31, Sect. 3, F.A.P. 380 $55,000, grading 306,400 cu.yd. Bridge 4178, on S.P. 22-25, F.A.P. 338, Paynesville-Eden Valley Rd. $60,000; also graveling, etc. 35,400 cu.yd. S.P. 7-39, Sect. 1, Sleepy Eye-New Ulm Rd. $30,000, and 47,000 cu.yd. S.P. 8-46, Cass Lake-Ball Club Rd. $40,000.

Kan., Ft. Scott—Aug. 31, by Clerk Bourbon Co., improving 3.005 mi. Federal Aid Project 339-A, 16 ft., incl. 2 concrete bridges, culverts, etc. H. McCurley, Ft. Scott, engr.

Kan., Norton—Sept. 10, by Clerk Norton Co., grading, etc., 118,017 cu.yd. mi. Federal Aid Project 345-A, J. P. Boesche, Norton Co., engr.; and grading, concrete or brick surfacing, etc., 16,331 sq.yd. Federal Aid Project 343-A, Archer Eng. Co., New England Bldg., Kansas City, Mo., engrs.

Kan., Wichita—Sept. 2, by Clerk Sedgwick Co., grading, and concrete or brick paving, etc., 53,285 sq.yd. Federal Aid Project 342-A. M. Roseberry, Wichita, co. engr.

Missouri—Aug. 25, by State Hy. Dept., Jefferson City, grading, etc. approximately 63.7 mi. roads in 15 counties. B. H. Piepmeier, ch. engr.

Mo., St. Louis — Aug. 31, by Bd. Pub. Serv., 208 City Hall, amiesite on concrete paving, etc., 1,885 sq.yd. Bischoff Ave., $22,840; and rein.-con. paving, etc., 1,615 sq.yd. Baden Ave., $9,760. W. W. Horner, 300 City Hall, engr.

Tex., Anderson—Grimes Co. taking bids grading and bridging 7½ mi. Highway [illegible] $70,500. O. A. Seward, Jr., Navasota, engr.

Tex., Ladonia—P. B. Price, engr., Jones Bldg., Paris, taking bids grading, curb, guttering and paving 10,000 yd. various streets, here, for City. $25,000.

Bids Received

Connecticut—State Hy. Dept., Hartford, rein.-con. paving 3,812 ft. Reynolds Bridge approaches, from J. De Michael & Bro., Torrington, $65,670.

N. Y., Brooklyn—J. A. Guider, pres. Brooklyn Boro, Boro Hall, Aug. 11, asphalt paving Alabama Ave. and Chester St. from Cranford Co., 52 9th Ave., $18,936 and $22,423 respectively and Remsen St., from Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave. $40,561; grading Remsen Ave. from C. Bennett Impvt. Co., 465 Fenimore St. $21,428, and Avenue Y, from Castle Bros., Inc., Snyder Ave. and Johnson St. $79,024; also fencing lots on Bainbridge St., from C. Seltzer, 27 Ellery St., $1,316. Noted Aug. 5.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Aug. 12, bituminous concrete paving Bard Ave., from J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $69,953. Noted Aug. 5.

Delaware—State Hy. Dept., Dover, Aug. 11, grading and paving 1.68 mi. Richardson Park-Lancaster Pike, Contr. CN30, from W. W. Truitt, Lincoln City, $57,451; 0.8 mi. Rogers-Eden Park, Contr. CN31A, from F. W. Lovett, Newark, $24,341; and 4.2 mi. Selbyville-Williamsville, Contr. CS55, from Highway Eng. & Constr. Co., Selbyville, $86,158. Noted July 22.

Maryland—State Rd. Comn., Baltimore, graveling 1 mi. Contr. P-69, from H. S. Swann, La Plata, $7,898, 1.83 mi. Contr. P-65, and concrete paving 1 mi. Contr. P-68, Prince George Co., from Southern Maryland Constr. Co., 12 East Lexington St., Baltimore, $17,780 and $21,537 respectively; concrete shoulders on 1.47 mi. Contr. B-2-A, from Ward & O'Connell, 3114 Presbury St., Baltimore, $10,140, and 2 mi. Contr. B-33-A, from H. T. Campbell Sons Co., Towson, $7,128, both Baltimore Co. Noted Aug. 5.

Md., Baltimore — Bd. Awards, Aug. 11, grading and concrete paving alleys, in Alley Contr. 121, from J. J. Bresnan, Woodland Ave., $24,614; grading, curbing and sheet asphalt on concrete paving 9,740 sq.yd. Contr. 360, from P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R. $36,315, 10,600 sq.yd. Contr. 359, from H. H. Hershberger, 3723 Reistertown Rd., $24,713. Noted Aug. 5.

Florida — State Hy. Dept., Tallahassee, Aug. 3, clearing, grubbing, grading, etc., 7.89 mi. Apalachicola-Gulf Co. line Rd., Project 592, Franklin Co., from Bennett Constr. Co., Dothan, $43,423; and 11.71 mi. Dade Co. line Rd., Project 669-V, Collier Co., from Alexander Ramsey & Kerr Co., Everglades, $347,847. Noted July 22.

Florida—State Road Dept., Tallahassee, Aug. 10, from Alexander Ramsey & Kerr Co., Everglades, clearing, grubbing and grading 9.393 mi. Palm Hammock-Hendersons Creek Rd., 30 ft., Project 669-X, Collier Co., $94,695.; from Smith Bros. Constr. Co., Tampa, improving 15.99 mi. Suwannee River-Madison Rd., 19 ft., Project 565, Madison Co., rock base $238,390, sheet asphalt surfacing $422,458, concrete surfacing $426,881, from Langston Constr. Co., Orlando, bituminous concrete surfacing $498,568.

Michigan—R. W. Roberts, resident engr., Saginaw, concrete paving 5.9 mi. T. L. 10-60, 20 ft., from L. W. Edison, Flint, $135,333; and concrete patching present pavement 3.509 mi. T. L. 10-4 and 10-62, from W. Neale & Son, Galesburg, $29,247, both Genesee Co., for State Hy. Dept., Lansing. Noted July 29.

Wis., Milwaukee—Dept. Pub. Wks., R. E. Stoelting, comr., July 30, from Badger Constr. Co., 97 Wisconsin St., asphalt paving, etc. Bway. and Menomonee Sts. $9,346, 1.5 in. asphaltic concrete paving Grant Blvd. $53,882 and 2.5 in. asphaltic concrete top piping same street $56,298; from W. F. Hunt, 445 Milwaukee St. vibrolithic concrete paving 5th Ave. $12,-425, and 6th Ave. $26,640, from K. C. Bluhm & Son, 1200 Achilles Pl., 59th St. $9,540, and Grant Blvd. $40,036 from Milwaukee General Constr. Co., 427 Mitchell St., Mitchell Park Dr. $3,668, from P. J. Murphy, 1123 17th St. 60th St. $2,872 and from Gumz & Switalski, 831 13th Ave., 30th Ave. $6,514; from A. E. Retzlaff, 868 Island Ave., concrete paving 1 alley $3,800, and from Schwerm Bros., 50 Lee St., 1 alley $1,987; from C. H. Slattery, 584 61st Ave. walks on Auer Ave. $5,764, Concordia Ave. $5,491, 40th St. $3,508, 41st St. $4,127,

Streets and Roads (Continued)

44th St. $5,782, 36th St. $5,674, 37th St. $7,298 and 39th St. $2,728, also from Bisback & Sadowski, 1092 2nd Ave., 11th Ave. $2,876.

Tex., Houston—Permanent paving Lamar St., from Gulf Bitulithic Co., 801 Bankers Mortgage Bldg., $52,097.

California—State Hy. Comn., Sacramento, Aug. 2, concrete paving 6.8 mi. road between top of Mountain Springs Grade and Meyers Creek Bridge, San Diego and Imperial Counties, from Jahn & Bressi, Corporation Bldg., Los Angeles, $286,627. Noted July 22.

Calif., San Diego—Common Council, Aug. 2, from Griffith Co., 25 14th St., improving Upas, Palm, Redwood Sts. et al., 15,299 cu.yd. excav. at $0.40 per cu.yd., 25,084 cu.yd. embankment $1, 500,046 sq.yd. 1.5 in. asphaltic concrete on 4 in. concrete paving $0.205, etc., total $165,959.

Contracts Awarded

Massachusetts—State Hy. Dept., Boston, bituminous macadam paving 12,992 ft. highway in Winchendon, to P. J. Keating Fitchburg $122,093, 3,000 ft. in Southborough, to R. H. Newell, Uxbridge $26,869, 3,600 ft. in Ashland and 1,200 ft. in Webster, to B. Perini & Son, Ashland $32,742 and $11,064 respectively, 1,100 ft. in Wilmington, to B. H. Kertseen, Boston $5,256 and 1,800 ft. in Lee, to C. B. Lindholm, Pittsfield $15,922; rein.-con. paving 4,956 ft. in North Attleboro, to Hudson Constr. & Supply Co., Grosvenor Bldg., Providence, R. I. $62,884 and 1,115 ft. in Millbury, to C. E. Horne, Millbury $16,411; bituminous concrete paving 6,300 ft. in Wareham to G. W. Lawrence, Falmouth $20,869 and 2,500 ft. in Hanson, to O. Mann, South Hadley $10,539; also furnishing and placing rip rap southerly abutment of bridge in Newburyport, to Cashman Bros., Newburyport, $1,601. Grand total $326,250. Noted Aug. 5.

Mass., Boston—Dept. Pub. Wks., paving Adams St., to M. F. Gaddis, 6 Beacon St., $40,105; sheet asphalt paving Commonwealth Ave., to Warren Bros. Co., 38 Charles River Rd., Cambridge, $24,070; recut granite block paving High St., to B. E. Grant, 77 Floyd St., Roxbury, $26,210 ;and bitulithic paving Tremont St., to J. C. Coleman & Sons Co., 1620 Tremont St., Roxbury, $42,339. Grand total $132,724. Noted July 15 and Aug. 12.

Connecticut—State Hy. Dept., Hartford, to Lane Constr. Co., 37 Colony St., rein.-con. paving 23,985 ft. highway in Windsor and Windsor Locks $164,400, to Bridgeport Concrete Constr. Co., 355 Ridgefield Ave., Bridgeport, 9,550 ft. in Ridgefield $72,279, 1,394 ft. in Stamford $22,409, and 8,800 ft. in Fairfield $36,382; to D. Arrigoni, Middletown, waterbound macadam paving 7,415 ft. in Burlington, $59,785; to Miller Bros. Constr. Co., Hartford, native stone macadam paving 4,282 ft. in Eastford $28,547, to A. D. Bridges & Sons, Hazardville, 10,005 ft. in Woodstock $47,422; to Connecticut Eng. & Contg. Co., Norwich, concrete girder bridge in Brooklyn and Plainfield $24,394, and to L. E. McLaughlin, New London, rein.-con. arch bridge and approaches in Chaplin, $44,265. Grand total $499,883. Noted Aug. 5.

New York—A. W. Brandt, comr. Highways, Albany, **(e. e. means engineers estimate)** constructing and reconstructing 1.46 mi. Repair Contr. 1540, Schenectady-Thomas Corners Highway 1172, Schenectady Co., to Kellum & Shafer Co., Schenectady, $63,317 e. e. $76,307; 2.23 mi. Repair Contr. 1537, Morrisville-Bouckville Rd., Highway 5330, Madison Co., to C. D. Murray, 701 Westcott St., Syracuse, $101,963 e. e. $128,113; 5.31 mi. Wallkill-Ireland Corners Rd., Highway 8262, Ulster Co., to O'Day & Ambrose, Binghamton, $252,275 e. e. $338,071; 0.78 mi. Florida Hamlet Rd., Highway 1735 and 1.68 mi. Warwick Village Rd., Highway 1736, both Orange Co., to Greenfield & Harding, Hornell, $48,918 and $68,020 respectively e. e. $58,745 and $86,639 respectively; 1.14 mi. Repair Contr. 1538, Greenville-Slate Hill Rd., Highway 282, Orange Co., to H. H. Smith, Inc., Middletown, $62,155 e. e. $76,780; 7.45 mi. Repair Contr. 1536, Malone-North Bangor Rd., Highway 701, Canton-DeKalb Rd., Highway 5031, and Malone-Moira Rd., Parts 2 and 3 Highway 5076, Franklin Co., to L. Mayersohn, 89 South Man Blvd., Albany, $284,714 e. e. $359,634; 3.89 mi. Repair Contr. 3149, Novis-Blue Stores Rd., Highway 589, Blue Stores-Livingston Rd., Highway 5004, Columbia Co., to Riteway Constr. Corp., 299 Bway., New York City, $249,099 e. e. $334,713; 5.7 mi. Repair Contr. 1535, Honeoye-Hemlock Rd., Highway 191, Livonia-Ontario Co. Line Rd., Highway 717, Livingston and Ontario Counties, to F. W. and J. J. Crouch, Rochester, $275,699 e. e. $379,589; 0.41 mi. Repair Contr. 3153, Lima-East Bloomfield Rd., Parts 1 and 2, Highway 5142 and 5041, Livingston and Ontario Counties, to T. F. Murray, LeRoy, $25,710 e. e. $29,608; 4.18 mi. Repair Contr. 1539, Goshen-Florida Rd., Highway 44, Orange Co., to Hull & Saltsman, Highland Mills, $242,831 e. e. $308,078, I-beam highway bridge, on Highway 8242, Alpine-Cayuta Rd., Part 2, Schuyler Co., to G. D. Chase, Horseheads, $10,000 e. e. $13,168. Grand total $1,684,611. Noted July 29.

N. Y., Bronxville—Westchester Co. Park Comn., 72 Pondfield Rd., grading, etc. portion Hutchinson River Parkway Extension and constructing 4 stone faced rein.-con. bridges, on above, White Plains, to S. J. Groves & Co., Camden, N. J., $274,481. Noted July 29.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sidewalks on Mott Ave. and 94th St., to O'Brien & Kurth, 8625 137th St., Jamaica, $4,752 and $13,916 respectively, Ramsey St. and Foster Ave., to Welsh Bros. Contg. Co., 32 Queens St., $15,243 and $2,326 respectively, and Central Ave., to Stanhy Constr. Co., Steinway Ave., $33,251; grading Booth St., to Peace Bros., Inc., 15 Lawrence St., Flushing, $8,383; asphalt paving Singer and 94th Sts., to Cleveland Trinidad Co., Flushing, $15,268 and $295,081 respectively, Woodside Ave., to W. J. Fitzgerald, Grand Central Terminal, New York City, $102,950, and Central Ave., to Cranford Co., 52 9th St., Brooklyn, $111,578; asphalt paving Northern Blvd. to A. Paino, 32 Court St., Brooklyn, $270,653; sidewalks on Pansy St. and asphalt paving Woodside Ave., to Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $11,485 and $23,360 respectively. Grand total $638,246. Noted Aug. 12.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., grading and granite block repaving West St., to J. Meehan & Son, Inc., 90 West St., $608,788. Noted Aug. 5.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., granite block paving 12th Ave., to Regan Towers Co., 127 West 121st St., $83,470; and West St., to St. George Paving Co., 90 West St., $125,879. Noted Aug. 12.

N. J., Asbury Park—City Comn. retopping Springwood and Lake Ave., to J. F. Burke, 309 Park Ave., Plainfield, $28,498. Noted July 8.

Pennsylvania—State Hy. Dept., Harrisburg, **(R. means Route and A. means Application)**, rein.-con. paving, etc. 8,100 sq.yd. R. 389, Allegheny Co., to M. O'Herron Co., South 1st and McKean Sts., Pittsburgh, $56,808; 11,633 sq.yd. A. 3955-4847, Beaver Co., to W. S. Morrison, New Brighton, $111,991; 16,660 sq.yd. A. 3574-3640, Blair Co., to Avery & Bailey, Philipsburg, $74,118; 7,274 sq.yd. R. 239, Mercer Co., to W. McIntyre & Sons Co., Sharon, $27,997; and 40,382 sq.yd. R. 510, Carbon Co., to Pratt & Moore, Inc., Hallidaysburg, $193,525. Grand total $464,439. Noted June 10, 17 and July 1.

Pennsylvania—State Hy. Dept., Harrisburg, **(R. means Route and A. means Application)**, rein.-con. paving, etc. 36,406 sq.yd. A. 3961, Montgomery Co.; to Dalton Bros., Paoli $148,843, 15,723 sq.yd. R. 75, Butler Co., to C. Winters Constr. Co., Butler $86,730, 60,000 sq.yd. R. 398, Skuylkill Co., to Rudolph & Delano, Tamaqua $252,900, 6,579 sq.yd. R. 72, Allegheny Co., to T. Cronin Co., South 18th St., Pittsburgh $22,501, 14,298 sq.yd. R. 358, A. 3385, Jefferson Co., to J. Weisner & Son, St. Marys $59,582, 47,779 sq.yd. Rs. 447-295, Crawford Co., to Russell Bros., Youngstown, O., $190,228, 39,483 sq.yd. R. 336, A. 3724, Northumberland Co., to W. M. Moser, Mt. Carmel $168,822, and 11,047 sq.yd. R. 243, Sect. 3-A, Beaver Co., to Allison Harris Constr. Co., Liverpool, O., $94,603; also penetration macadam paving, etc. 20,690 sq.yd. R. 423, A. 4048, Lebanon Co., to Lane Constr. Co., 37 Colony St., Meriden, Conn., $54,430. Grand total $1,078,639. Noted July 8 and Aug. 12.

Pa., Beaver—Grading 4,700 cu.yd. Smith Ferry Sect. E-L. Midland Rd., Beaver Co., to Allison-Harrison Constr. Co., East Liverpool, O., $94,607. Engrs. est. $100,000.

Pa., Connellsville — Rein.-con. paving North and South Arch Sts., to Malachi Duggan, Connellsville, $89,000.

Pa., Johnstown—Bituminous paving, etc., 2,000 ft. Russell Ave., to C. S. Graham Co., Pittsburgh, $19,626; and brick paving, etc., 18,500 ft. Frederick St., Forest Ave. and 4 alleys, to R. W. Trevorrow, Johnstown, $34,031; paving and sewers in 6 alleys, to F. Zipf & Son Co., Johnstown, $32,870. Grand total $86,527. Noted July 29.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to Gudknecht & Cullison, Lonsdals and Robbins Sts., grading Borbeck St. $1,940, Hegeman St. $606, and James St. $403, to J. O'Rourke, 925 North 47th St., City Ave. and 63rd St. $627, and to R. B. Wenner, 2313 Walnut St., Oxford Ave. and Shelmire St. $1,049; to Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., asphalt paving (assessment work), Emlen St. $15,301, 4th St. $2,977, Fairhill St. $5,985, and Lawrence St. $3,277, and to Eastern Asphalt Co., Penna Bldg., Ormond St. $4,963; to M. Y. Neely, Inc., Oxford and Washington Sts., improving Griffith Rd. $10,280, to M. Leewright, 424 Seville St., Kingsley Rd. $2,640, and to Curtis Bros., State and Unruh Rds., Rowland Rd. $13,697; to Kauffman Constr. Co., Penna Bldg., repairing bridges $3,290; to Atlantic Refining Co., 260 South Broad St., furnishing asphaltic cement $3,440, and fuel oil $5,865; to E. J. Lavino, Bullitt Bldg., furnishing limestone dust for asphalt paving mixtures $1,538; to General Crushed Stone Co., North Amer. Bldg., crushed stone $3,980; to Miles Bitting Co., Penna Bldg., binder slag $3,500; and to Van Sciver Corp., Parkway at 24th St., crushed pebbles $3,000. Grand total $78,650.

Md., Baltimore — Bd. Awards, concrete paving 9,370 sq.yd. Contr. 357, to Arundel Contg. Co., Knickerbocker Bldg $22,655; and sheet asphalt paving 11,200 sq.yd. Contr. 355, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $42,340. Noted Aug. 5.

Md., Baltimore—Sheet asphalt paving 9,270 sq.yd. Contr. 358, to Amer. Paving & Contg. Co., Montebello Ave., $40,997.

W. Va., Wayne — Wayne Co., grading, etc. Mill Creek and 4 other roads, to Price Constr. Co., Huntington, $27,413; gravel and concrete paving Ft. Gay to Top Crabtree Hill Rd., to G. L. Pence Constr. Co., 145 4th Ave., Huntington, $104,167. Noted July 8.

North Carolina — State Hy. Dept., Raleigh, clearing, grubbing, grading and gravel surfacing 5.99 mi. Project 142, Halifax Co., to C. E. Hill & Son, and Beal Bros., Scotland Neck, $40,786; grading, sand asphalt paving, etc. 7.21 mi. Project 681, Scotland Co., to P. R. Ashby & Co., Rowland, $135,297; clearing, grubbing, grading, etc. 14.22 mi. Project 109, Bertie Co., to N. L. Teer, Durham, $125,168; grading, concrete paving, etc. 3.92 mi. Project 979, Madison Co., to Pennell & Harley, Inc., Spartanburg S. C., $100,979 and 5.64 mi. Project 909, Buncombe Co., to Appalachian Constr. Co., Asheville $160,543. Grand total $562,773. Noted July 15.

N. C., Rocky Mount — Rocky Mt. Road Dist. Comn., grading, concrete paving, etc., 12.1 mi. road between Rocky Mt. and Pinetops, to Hudson & Scruggs, Wilmington, $296,972.

Alabama—State Hy. Comn., Montgomery, **(e. e. means engineers estimate)**, sand clay surfacing 10.33 mi. Clayton-Union Springs Rd., 18 ft., Barbour Co., to J. B. Turner, Columbia, $89,371 e. e. $90,000; limerock asphalt on black surfacing 3.92 mi. Sheffield-Wilson Dam Rd., 20 ft., Colbert Co., to W. J. Runyon, Sheffield, $94,783 e. e. $100,000; concrete paving 1.55 mi. Russellville Rd., 32 ft., Franklin Co., to W. H. Pattie, 1566 North 23rd St., Birmingham, $95,735 e. e. $96,150; gravel surfacing 10.02 mi. Camden-Rosebud Rd., 18 ft., Wilcox Co., to Nixon & Phillips, Lineville, $72,184 e. e. $73,000; grading 17.87 mi. Monroeville-Belleville Rd., 18 ft., Monroe and Conecuh Co., to Newell Constr. Co., 3828 Avenue A, Birmingham, $75,662 e. e. $76,200. Grand total $427,735. Noted July 15.

Miss., Durant—L. J. Wilkes, city clk., City Hall, grading, curbing, guttering and asphalt on concrete paving 4,500 sq.yd. Mulberry St., to Dunn Constr. Co., Inc., Chamber of Commerce Bldg., Birmingham.

Miss., Jackson — Grading and bitulithic paving various streets, to Dunn Constr. Co., Chamber of Commerce Bldg., Birmingham, Ala., at $1.34 per sq.yd.; also grading and vibrolithic concrete paving various streets, to Gaddis & Owen, Jackson, $2.36.

Miss., New Augusta—Bd. Supervs. Perry Co., grading, gravel surfacing, etc., 13 mi. various roads, to H. M. Mobley, New Augusta. Engrs. est. $150,000. Noted June 24.

Kentucky—State Hy. Dept., Frankfort, **(F.A.P. means Federal Aid Project and S.A.P. means State Aid Project)**, grading, etc. 4.591 mi. Owingsville-Farmers Rd., 26 and 30 ft., F.A.P. 137-B, Bath Co., to Carson-Ellison & Co., Georgetown $74,215, 9.235 mi. Prestonberg-Pikeville Rd., 24 and 28 ft., S.A.P. 28½-A, Floyd Co., to Smith-Combs Co., Beattyville $147,442, 7.168 mi. Paducah-Wickliffe Rd., 24 and 28 ft., S.A.P. 8-B, McCracken Co., to Carter & Braden,

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Streets and Roads (Continued)

Clay $40,993, 10.758 mi. Princeton-Dawson Springs Rd., 24 and 28 ft., F.A.P. 153-A and B, Caldwell and Hopkins Counties, and unrolled gravel surfacing 9.601 mi. Morganfield-Marion Rd., 16 ft., S.A.P. 8-D, Union Co., to Corum Bros., Madisonville $86,452 and $101,319 respectively; rein.-con. surfacing 10.331 mi. Cannonsburg-Louisa Rd., 16 ft., S.A.P. 6-A and 6½-A, Boyd Co., to Ashland Supply Co., Ashland $269,641, 3.421 mi. Frankfort-Versailles Rd., 20 ft., F.A.P. 155-A, Franklin Co., to Perkins Constr. Co., Frankfort $139,473, 5.809 mi. Williamsburg-Jellico Rd., 16 ft., S.A.P. 35-C, Whitley Co., to Brice-Lynch-Boggs & Co., Lexington $159,907; unrolled bank gravel surfacing 6.046 mi. Fulton-Hickman Rd., 16 ft. S.A.P. 54-B, Fulton Co., to N. E. Stone & Co., Madisonville $53,015, 3.2 mi. same road, S.A.P. 130-A and 131-A, Fulton Co., to W. F. Robison & Sons, Masceo $101,458 and 5.513 mi. Morganfield-Marion Rd., 16 ft., S.A.P. 8-E, Union Co., to J. F. Hill & Son, Providence $46,100, waterbound macadam surfacing 5.922 mi. Shelbyville-Mt. Eden Rd., 14 ft., S.A.P. 20-A, Shelby Co., to E. E. Price & Co., Lexington $89,373 and 6.6 mi. Taylorsville-Bloomfield Rd., S.A.P. 18-B, Spencer Co., to Games & Cocke, Louisville $72,411. Grand total $1,381,739. Noted July 8.

Ky., Frankfort—Curbing, guttering and rock asphalt paving 14,933 sq.yd. East Main St., to Davis Contg Co., Lexington, $64,304.

O., Canton—City, (*e. e. means engrs. est.*), asphalt paving Rowland Ave. N. E., and Frazer Ave., to Garaux Bros., Massillon Rd., $34,988 and $36,903 respectively, e. e. $35,000 each; Greenfield Ave. N. W., to Superior Asphalt Paving Co., Canton, $36,953 e. e. $35,000, Harriet Ave. N. W., to Wise Bros. Co., $27,566 e. e. $25,000; and Bell Flower Ave. N. W., to Genl. Asphalt Paving Co., 1268 Dueber Ave. S. W., $27,850 e. e. $30,000. Grand total $164,260.

O., Cleveland — Grading and bituminous concrete paving 4,520 sq.ft. East 173rd St., to Gould & Maybach, 16311 Saranec Rd., $20,577; grading and brick surfacing 810 sq.ft. West 37th St., to Freshwater Constr. Co., Davis & Farley Bldg., $4,854.

O., Cleveland Heights (Warrensville P. O.)—To Highway Constr. Co., Guarantee Title Bldg., Cleveland, paving, Hartwood Rd. $26,661, Ivydale Rd. $20,059, Middleton Rd. $11,138 and Oakwood Rd. $6,552. $64,410. Noted Aug. 5.

O., Columbus — Grading, curbing, laying necessary water mains and sewer connections and brick paving 25,650 cu.yd. Indianola Ave., to R. J. Dienst Co., 209 South High St. $128,621; asphalt paving 6,340 cu.yd. Meadow Rd., Brexton, Primrose and Thornwood Places, to B. F. Patterson, 1214 Neil Ave. $51,616, 13,460 cu.yd. Melrose and Milford Aves., to Fritz-Pyle Co., 209 South High St., $85,391. Grand total $137,007. Noted July 22.

O., Dayton—Rein.-con. paving 2,080 ft. Beechwood Ave., 30 ft., to E. A. Smith, Commercial Bldg., $31,600. Engrs. est. $40,000.

O., Lakewood (Cleveland P. O.)—To Cleveland Trinidad Paving Co., The Arcade, Cleveland paving Hafermalz Court $2,721, Athens Ave. $27,958, and Warren Rd. $32,394. Grand total $63,073. Noted July 22.

O., London — Bd. Control of Jackson, grading, curbing and brick on star slag base paving, etc. East Bway., to W. J. Kuhner, Jackson, $33,038; brick on slag paving Bridge and State Sts., to Brewer & Brewer Sons, Chillocothe, $32,392.

O., Medina — Sheet asphalt paving East Washington and West Liberty Sts., to Thorpe Constr. Co., 3280 Scranton St., Cleveland, $13,317 and $20,824 respectively. Engrs. est. $13,741 and $20,543 respectively.

O., New Philadelphia—Tuscarawas Co., paving Road 341, Sect. P-2 Dover-Sugar Creek Rd., to Leroy Springer & Co., New Philadelphia, $53,588.

O., Youngstown—Improving Glenwood Ave. from Eaton to Parkview Sts., to Kelley & Meyer, Youngstown, $26,277 engrs. est. $30,000, and Indianola Ave., from Market Ave., to Glenwood St., to Victor Olson Contg. Co., 508 Mahoning Bank Bldg., $58,125 engrs. est. $60,000; also grading Erie and Parker Sts., to Billock & Clarke Co., Youngstown, $27,052 engrs. est. $30,000. Grand total $111,464.

Michigan — State Hy. Dept. at County Rd. office, Bad Axe, concrete paving 1.015 mi. T. L. 19-27, 20 ft., Huron Co., to Murray & Fremont, Bad Axe, $33,556.

Michigan—F. F. Rogers, State Hy. Comn., 7 Monument Sq. Bldg., Grand Rapids, grading and concrete paving 33,275 sq.yd. State Trunk Line M-24, in Muskegon and Dalton Twps., Muskegon Co., to J. R. Edelman Co., 498 6th St., Muskegon Heights, $49,334. Engrs. est. $90,000.

Michigan—A. M. Hopperstead, resident engr., Crystal Falls, concrete paving 2.437 mi. T. L. 12-48, 20 ft., Dickinson Co., to M. J. Bacco, Iron Mountain, for State Hy. Dept., Lansing. $84,345. Former contract rescinded.

Michigan—W. W. Lavers, resident engr., Plymouth, concrete paving 7.037 mi. A. D. 418, 20 ft., Wayne and Monroe Counties, to W. H. Knapp Co., Monroe, for State Hy. Dept., Lansing. $216,202.

Michigan—R. W. Roberts, resident engr., Saginaw, concrete paving 5.9 mi. T. L. 10-60, 20 ft., to L. W. Edison, Grand Rapids, $135,333; concrete patching present pavement 3.509 mi. T. L. 10-4 and 10-62, to W. Neal & Son, Galesburg, $29,246, both Genesee Co., for State Hy. Dept., Lansing.

Michigan—State Hy. Dept. at County Rd. office, Bad Axe, concrete paving 2.024 mi. T. L. 19-28, 20 ft. Huron Co., to Murray & Fremont, Bad Axe, $68,258.

Michigan—State Hy. Div. office, Saginaw, concrete paving 5.5 mi. T. L. 10-59, Sect. A., Saginaw Co., to T. McNally, Saginaw, $182,843.

Michigan—A. M. Hopperstead, resident engr., Crystal Falls, concrete paving 0.866 mi. T. L. 75-5, 20 ft. Dickinson Co., to M. J. Bacco, Iron Mountain, for State Hy. Dept., Lansing, $20,536. Noted July 29.

Michigan—A. M. Hopperstead, resident engr., Crystal Falls, concrete paving 7.899 mi. F. A. 174, Sect. A., 20 ft., Marquette Co., to Nickel & Brum, Ironwood, for State Hy. Dept., Lansing, $321,102. Noted July 29.

Michigan—R. W. Roberts, resident engr., Saginaw, concrete paving 5.2 mi. T. L. 10-59 Sect. B., 20 ft., Bay Co., to T. McNally, Saginaw, for State Hy. Dept., Lansing. $194,391.

Mich., Detroit — Berea curbing, 3½ in. sheet asphalt on 8 in. concrete paving Oakman Blvd. Sect. 3 and 11 avenues, to Detroit Asphalt Paving Co., 909 Transportation Bldg., $292,381; Anglin and Goulburn Aves., to Cooke Asphalt Paving Co., 1260 Penobscot Bldg., $47,074; and North Ave., to Cleveland Trinidad Paving Co., 402 Hammond Bldg., $4,262. Grand total $343,717.

Illinois—State Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, paving Route 7, Sect. 4-W, Henry Co., to Trompeter & Sons, Peru $17,916, Route 24, Sect. 2-W-1, Christian Co., to W. F. Sell, Pana $3,357, Route S-A-T, Sect. 55-R, Cook Co., to Jaicks Bros., 107 North Clark St., Chicago $12,643, Route 31, Sect. 15, Fulton and Schuyler Counties, to H. A. Carpenter, Brazil, Ind. $57,390, Route 7, Sect. 31, La Salle Co., to Central Eng. Co., Putnam Bldg., Davenport, Ia. $105,725, Route 43, Sect. 4, Mason Co., to Globe Constr. Co., Evansville, Ind. $145,797, Route 28, Sect. 11, Henry Co., to Hartman Clark Bros., Peoria $13,250, Route 28, Sect. 11-X, Henry Co., and Route 24, Sect. 6, Sangamon Co., to J. W. Etchison Co., Casey $151,619, Route 11, Sect. 0-1, Fayette Co., to Tegge Honig Paving Co., Papineau $20,354, Route 18, Sects. 16, 17 and 18, to C. E. Carson Co., 601 St. Clair St., Chicago $193,500, and Route 18, Sects. 19, 20 and 20-X, to Hankel Constr. Co., Mason City, Ia., $213,465; grading Route 18, Sect. 19-A, La Salle Co., to Smith Constr. Co., Decatur $7,773, Route 1, Sect. 38—V-1, Johnson Co., to W. C. Dunston, Marion $18,987, and Route 24, Sect. 8-A, Sangamon Co., to J. J. McCaughey Co., Inc., 189 West Madison St., Chicago $24,603. Grand total $986,379. Noted June 24 and July 29.

Ill., Evanston—Bd. Local Impvts., grading, curbing, guttering, and concrete paving 30,415 sq.yd. various streets, to M. Foley Co., 1520 Lyons St., $135,954.

Ill., Park Ridge—Concrete paving Canfield, Crescent and Robertson Aves., to J. J. Dunnegan, Park Ridge, $271,827. Noted Mar. 18.

Ia., Cedar Rapids—For 7 in. rein.-con. paving approximately 12,386 sq.yd. B Ave. W., to Ford Paving Co., 210 2nd Ave. E., $30,143.

Ia., Cedar Rapids—Linn Co., to Dewees Bros., Springville, improving various township roads, 1,700 cu.yd. stone 1 mi. haul at $1.65 per cu.yd., and 14,550 units ¼ mi. overhaul $0.12; to Dewees & Whitney, Springville, various county roads, 5,775 cu.yd. stone 1 mi. haul $2.34, 9,450 units ¼ mi. haul $0.07, and 2,125 cu.yd. gravel 1 mi. haul $2.35, etc.

Ia., Decorah—Winnesheik Co., to M. O. Weaver, Iowa Falls, improving Primary Project 121-F, Federal Aid Projects 98-A, and C, also 284, 18,782 cu.yd. stone 1 mi. haul at $0.90, $0.98 and $1.15 per cu.yd., 37,043 cu.yd. gravel $0.49, $0.60 and $ 15,300 cu.yd. stripping, $0.10, $0.25 $0.30, 128,210 units overhaul $0.10. N July 1.

Ia., Dubuque—Dubuque Co., to Harr Eng. & Constr. Co., 506 Mutual B Kansas City, Mo., improving Federal Project 148-A and B, 80,215 cu.yd. ex at $0.45 per cu.yd., 63,890 lb. extra reforcing $0.05 and 161,818 sq.yd. concr paving $2.49, etc.

Ia., Mason City — Cerro Gordo Co., Sampson Bros., Algona, improving vari roads, incl. Ventura-Meservey Rd., 2 cu.yd. gravel 1 mi. haul at $0.35 per cu 3,000 cu.yd. stripping $0.25, and 161 sta.yd. overhaul $0.07, etc. Noted July

Ia., Osceola—For 6 in. concrete pa 27 blocks various streets, to Union Const Co., 200 New York St., Des Moines, $83, Noted Apr. 29.

Minn., Caledonia—T. J. Schlitz, village clk., storm sewers in 6.5 blocks and paving approximately 37,554 sq.yd. various stree to Woodrich Constr. Co., 808 Metropolitan Life Bldg., Minneapolis, $92,000. Noted July 22.

Minn., New Ulm — W. P. Backer, city clk., paving 32,018 sq.yd. Bway., to Woodrich Constr. Co., 808 Metropolitan Life Bldg., $70,745. Engrs. est. $40,000. Noted July 22.

Minn., St. Paul—G. J. Ries, aud. Ramsey Co., improving Project 26-62 Divs. A and B, Anoka Cutoff Highway, 210,786 cu.yd. earth and 4,660 cu.yd. special excav., to C. Weaver, Anoka, $65,652; 86,897 cu.yd. earth and 4,971 cu.yd. special excav., Div. C, to D. W. Moore, 888 Edmund St., $38,895; also grading and one course concrete paving 82,550 sq.yd. Div. D, to Ganley Bros. Co., 544 Endicott Bldg., $172,690. Grand total $276,737. Noted July 1.

Kan., Atchison—Atchison Co., grading, etc. 4.597 mi. Federal Aid Project 349-A, to Rickle & Dubach, Everest, $46,783. Engrs. est. $51,134.

Kan., Columbus—See "Bridges."

Kan., Eldorado — Butler Co., grading, concrete paving, etc. 72,234 sq.yd. Federal Aid Project 205-G, to Smith Bros., Inc., Amer. Exch. Bldg., Dallas, Tex., $194,389. Noted July 1.

Kan., Independence—See "Bridges."

Kan., Marion—Marion Co., concrete surfacing 0.125 mi. Federal Aid Project 218-A, and 0.416 mi. Federal Aid Project 290-A, to M. R. Ammerman, 248 North Market St., Wichita, $17,256; grading 10.747 mi. Federal Aid Project 290-B, and 3 multiple box bridges on same road, to L. W. Rexroad, Salina, $42,287. Noted July 15.

Kan., Seneca—Nemeha Co., grading, etc. 7.727 mi. Federal Aid Project 225-D, to A. F. Roberts, Sabetha, $41,804. Noted July 22.

Kan., Topeka — Shawnee Co., concrete paving 3.727 mi. Federal Aid Project 355-A, to Zeigler Bros., Junction City, $96,283; and 1,997 mi. California Ave., to Stimson Constr. Co., Topeka, $53,265. Noted Aug. 12.

Neb., Wilbur — Warrenite bitulithic paving, etc. 8,300 sq.yd. various streets, to Abel Constr. Co., Terminal Bldg., Lincoln, $27,639.

South Dakota—State Hy. Comn., Pierre, **(F.A.P. means Federal Aid Project and S.A.P. means State Aid Project)**, to Tobin & Maloney, Madison, grading 12.66 mi. F.A.P. 180-D, Corson Co. $47,153, 5.15 mi. F.A.P. 190-A, Campbell Co. $17,695, 12.01 mi. F.A.P. 211-A, Chas. Mix Co. $23,615, 16.26 mi. F.A.P. 210-A, Hutchinson and Bon Homme Counties $37,307, 9.53 mi. F.A.P. 167-B, Bon Homme Co. $31,661, graveling, etc. 15.09 mi. F.A.P. 196-A, Aurora Co. $15,683, constructing 90 and 32 ft. concrete and steel viaducts on S.A.P. 70 Fall River Co. $9,313; to W. R. Larson Constr. Co., Sioux Falls, grading, etc. 10.05 mi. F.A.P. 201-A, Hyde Co. $24,966, 14.35 mi. F.A.P. 205-A, Deuel Co. $46,698 and 14.02 mi. F.A.P. 199-B, Codington Co. $30,179; to Chalk & Birdsall, 4.56 mi. F.A.P. 209-A, Fall River Co. $61,627, to Northwestern Eng. Co., Kadoka, 3.52 mi. F.A.P. 130-D, Custer Co. $21,699, and to M. P. Lien, Veblen, 14.05 mi. F.A.P. 208-A, Roberts Co. $32,213; to Lynch & Rinehart, Sioux Falls, graveling, etc. 15.5 mi. F.A.P. 108-B, S.A.P. 124, Chas. Mix Co., $26,776, to H. Pickus, Sioux Falls, 15.75 mi. F.A.P. 177-B, S.A.P. 50, Pennington Co. $19,012, 9.2 mi. F.A.P. 163, Butte and Lawrence Counties $15,740, to S. S. Roberts, Flanereau, 13.87 mi. F.A.P. 188-A, Miner Co. $10,091, to I. R. Riber, Marshall, Minn., 18.31 mi. F.A.P. 182-A, Buffalo and Jerauld Counties $12,135, to Summit Constr. Co., Summit, 8.07 mi. F.A.P. 188-C, McCook Co. $6,362, 12.97 mi. F.A.P. 110, and S.A.P. 101, Potter Co. $24,507, and 12.94 mi. F.A.P. 37, Potter

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Streets and Roads (Continued)

and Faulk Counties $20,117, to C. J. Erling, Sioux Falls, 12.05 mi. F.A.P. 188-D, McCook Co. $11,234; to Pioneer Bridge Co., Mitchell, constructing 90 and 24 ft. concrete and steel viaducts on F.A.P. 167-B, Bon Homme Co. $6,490, and to W. A. Stump, Mobridge, 30 ft. concrete viaduct on F.A.P. 190-A, Campbell Co., $2,987. Grand total $555,260. Noted July 15.

Montana — State Hy. Comn., Helena, grading, etc. 9.06 mi. Custer Battlefield Highway, Federal Aid Project 2121, Unit 1, to Pioneer Constr. Co., Bozeman, $59,-110, engrs. est. $67,000; also grading, graveling, etc. 2.914 mi. Pablo-Rollins Highway, Federal Aid Project 191-A, to Broderson & McConnell, Boulder, $22,043 engrs. est. $21,000.

Missouri—State Hy. Comn., Jefferson City, to Chaney & Amyx, Licking, 60 ft. clearing and grubbing approximately 16 mi. road from Eminence north, Shannon Co. $11,721, 30 ft. grading 1.978 mi. Licking-Salem Rd., Dent Co. $18,122, and 18 ft. graveling approximately 9 mi. Van Buren-Leeper Rd., Reynolds Co. $17,648; to Richmond Constr. Co., Excelsior Springs, grading and 18 ft. concrete paving 6.609 mi. road from Platte City south, Platte Co. $66,151 and 30 ft. grading 1.128 mi. road from Doniphan east, Ripley Co. $34,955; to Metropolitan Paving Co., St. Joseph, grading and 18 ft. concrete paving 2.54 mi. St. Joseph-Hannibal Rd., DeKalb Co., $54,-777; to J. E. Ellis, Rockport, Ind., grading 0.322 mi. road from Doniphan east, Ripley Co. $3,591; to C. I. Williams, Monett, 30 ft. grading 0.352 mi. road from Galena south, Stone Co. $11,451; to E. P. Olson, St. Joseph, 30 ft. grading 17.636 mi. road from Unionville east, Putnam Co. $147,-869 and to J. P. Harlin, Westplains, 5.424 mi. road from Hartville north, Wright Co. $36,704; to N. E. Stone & Co. and H. H. Ruddell, Jefferson City, 26 ft. grading 7.946 mi. and 18 ft. graveling 2.466 mi. roads in Taney Co. $103,007; to A. A. Davies & Co., Kansas City, grading and 18 ft. graveling 19.85 mi. roads in Shannon and Texas Counties $167,039; to Thayer Constr. Co., Shelbyville, 18 ft. graveling 10.077 mi. roads in Sullivan Co. $31,191; to Graham Bros., Leeds, 18 ft. graveling 9.655 mi. road in Cooper Co. $61,151, to Thomas & Samsen, Bonnotts Mill, 1.09 mi. Rocheport-U. S. Route 40, Howard Co. $5,719, to G. W. Condon Co., Omaha, Neb., 2.333 mi. Forest City-Oregon Rd., Holt Co. $34,854; and to LaHar Bros., Lees Summit, 18 ft. graveling 7.215 mi. road from Macks Creek north, Camden Co. $49,417. Grand total $869,162. Noted June 24.

Mo., Joplin—To V. E. Koch, 417 Joplin St., squeegee asphalt on 6 in. concrete paving 2,550 sq.yd. Virginia Ave. at $1.69 per sq.yd. 2,650 sq.yd. Jackson Ave. $1.68 and 6 in. concrete paving 1,350 sq.yd. 1 alley $1.62; to H. Kost, 2002 Jackson Ave., squeegee asphalt on 6 in. concrete paving 7,625 sq.yd. Jackson Ave. at $1.67 per sq.yd.; and to Granite Bituminous Paving Co., Ry. Exch. Bldg., St. Louis, lake asphaltic concrete paving 8,900 sq.yd. Joplin St. at $1.66 per sq.yd.

Mo., Kansas City — L. Koehler, engr. Jackson Co., 7 in. concrete paving, etc. 15,620 sq.yd. Homes Street Rd., to W. A. Ross Constr. Co., Ry. Exch. Bldg., at $2.19 per sq.yd.

Mo., Springfield—Concrete paving, etc. 3,040 sq.yd. Monticello St. and 4,100 sq.yd. Florence St., to E. V. Koch, City Hall at $1.95 and $1.58 per sq.yd. respectively.

Ark., Bentonville—W. E. Jackson, secy. Paving Dist. 1, grading, curbing, guttering and concrete paving, etc., 28,251 sq.yd. various streets, to E. H. Locher Constr. Co., P. O. Box 248, Okmulgee, Okla. Noted July 15.

Tex., Cleburne — Johnson Co., asphaltic macadam paving Bellevue Dr., James and Harrell Sts., etc., to West Texas Constr. Co., Cotton Exch. Bldg., Ft. Worth, $35,-280. Engrs. est. $37,500.

Tex., Whitesboro — For 2 in. Gilsonite asphalt on 5 in. rein.-con. paving various streets, to D. B. Talieferro. Sherman, approximately, $33,000.

Tex., Wichita Falls — Hard paving 16 blocks 8 various streets, to L. Whitham & Co., Wichita Falls, approximately $32,700.

Okla., Oklahoma City—Grading, curbing and sheet asphalt paving 5,880 sq.yd. Indiana and 21st Sts., to Western Paving Co., Tradesmens Bldg., $29,482. Engrs. est. $30,316. Noted Apr. 8.

Idaho—State Hy. Comrs., Boise, grading, etc. 0.973 mi. Federal Aid Project 27-A, Fayette Co., to C. H. Helmer, Twin Falls, $41,542.

Arizona — State Hy. Comn., Phoenix, improving Winslow-Flagstaff Highway, Federal Aid Project 81, to Whiting Bros., Tanner & Turley, St. Johns, $58,918.

Washington—State Hy. Comn., Olympia, grading, etc. 68,000 cu.yd. State Rd. 5, Federal Aid Project 134-B, Lewis Co., to Rignall & Sweeney, 505 Rust Bldg., Tacoma $66,237, 56,200 cu.yd. Cascade Rd., Skagit Co., to Halleran Bros., Manette $68,693, and 0.57 mi. Methow Valley Highway, Okanogan Co., to J. A. and E. C. Sampson, Wenatchee $6,975; also graveling, etc. 5,000 cu.yd. State Rd. 21, Kitsap Co., to Edland & Burger, 6002 South Puget Sound Ave., Tacoma $5,555. Grand total $147,460. Noted July 15.

Wash., Grays Harbor—W. B. Sams, supt. Indian Agency, grading 5.5 mi. Moclips-Taholah Rd., to Herrin & Ewart Co., Aberdeen, $36,000.

Wash., Seattle—Paving East 65th St. and 1st Ave. N. W. et al., to Fiorito Bros. et al., 3950 6th St. N. W., $184,286 and $104,301 respectively. Engrs. ests. $201,-617 and $116,120 respectively.

Wash., Seattle—Comrs. King Co., constructing Lake Sammamish Shore Line Rd. Extension 3, to Wilburn & Stone, c/o T. R. Beeman, city engr., $28,500. Engrs. est. $26,800.

Wash., Walla Walla—Bd. Pub. Wks., 6 in. sheet asphalt paving, etc. 23,500 sq.yd. 9th, Bonsella, Idaho Sts. et al., to Standard Asphalt Paving Co., Spokane, $53,658. Engrs. est. $65,000.

Calif., Los Angeles—To H. A. McCrey, 1701 Morton St., 6 in. concrete paving 112,-478 sq.ft. Riverside Dr. $27,254, concrete on asphalt paving, etc. 350,885 sq.ft. Cahuenga Blvd. $153,434, and 898 sq.ft. Cumpston St. $27,457; and to Griffith Co., 502 Los Angeles Ry. Bldg., grading and concrete paving, etc. 156,427 sq.ft., Hawthorne Ave. $44,048. Grand total $252,-193. Noted Aug. 12.

Calif., Santa Cruz—For 5 in. concrete paving, etc, portions Laurent St., etc., to Granite Constr. Co., Watsonville, $51,795. Noted Aug. 13.

Calif., Vallejo—For 2 in. Topeka on 4 in. asphaltic concrete surfacing portion Brancifort, Sacramento Sts., etc., to J. E. Johnston, Savings & Loan Bank Bldg., Stockton, $37,660; and vibrolithic concrete paving Napa and Tennessee Sts., etc., to L. Tagnon, 1735 Napa St., $27,340. Noted Aug. 2.

Ont., Ridgetown — Concrete paving approximately 7,000 sq.yd. Erie St., to W. W. King, Oakville. Engrs. est. $25,000.

Buildings—Commercial

Proposed Work

Vt., Bellows Falls—SOCIETY—I. O. O. F. Society, R. E. Bristol, chn. building com., plans brick, Rockingham St. $150,000. Engineer and architect not selected.

Mass., Brockton — TEMPLE — Brockton Masonic Temple Assn., having plans prepared by Osgood & Osgood, Grand Rapids, Mich., masonic temple. To exceed $150,-000.

Mass., Brookline (br. Boston)—HOSPITAL—Trumbull Hospital, 68 Allerton St., plans hospital addition. $150,000 or more. Engineer and architect not selected.

Mass., Quincy (Boston P. O.)—EXPOSITION HALL—Quincy Chamber of Commerce, W. Dennison, pres., having preliminary plans prepared by Batty, Galagher & Hobart, 13 Temple St., 2 story and basement, rein.-con., brick and stone, plain foundation, Scannons Field, Scannon St. $150,000.

Conn., Bridgeport—Y. M. C. A., 833 Main St., plans Y. M. C. A. building, State St. near Park Ave. $150,000 or more. Engineer and architect not selected.

N. Y., New York—APARTMENT—One Hundred Forty Five West 82nd St. Corp. c/o W. H. Jackson, archt., 1841 Broadway, having plans prepared 15 story, brick, steel and stone, plain foundation West 82nd St. $1,350,000.

N. Y., New York — APARTMENT — Owner, c/o Glick & Duma, archts., 400 East Fordham Rd., having plans prepared 6 story, brick, steel and stone, plain foundation, Simmons Ave. $250,000.

N. Y., New York — DEPARTMENT STORE — Adams-Flanigan, Westchester and 3rd Aves., having preliminary plans prepared by Starrett & Van Vleck, 393 7th Ave., 6 story, brick, steel and stone, plain foundation, East 149th St. and 3rd Ave. $800,000.

N. Y., New York—HOSPITAL—Bellevue & Allied Hospitals, foot East 26th St., J. McGrath, pres., having plans prepared by Starrett & Van Vleck, 393 7th Ave., 5 story, brick, steel and stone, plain foundation, Southern Blvd. $1,500,000.

N. Y., New York—OFFICE—S. Augenblick, c/o M. Zipkes, archt., 25 West 43rd St., having plans prepared brick, steel and stone, plain foundation, Lafayette and Walker Sts. $500,000.

N. Y., New York — OFFICE — One Hundred Eleven John St. Corp., c/o J. B. Peterkin, engr. and archt., 285 Madison Ave., having plans prepared 18 story, brick, steel and stone, plain foundation, John Pearl and Cliff Sts. $2,000,000.

Pa., Altoona — HOTEL — William Penn Hotel Co., H. L. Wilson, pres., 1025 Chestnut Ave., plans 5 story and basement, 60 x 120 ft., stone, concrete and steel, 11th St. $300,000. Engineer and architect not selected.

Pa., Phila.—APARTMENT—L. M. Lifter, Jefferson Bldg., having preliminary plans prepared by Stetler & Dysher, Jefferson Bldg., 9 story and basement, rein.-con., brick and steel, plain foundation, 3rd and 60 Walnut Sts. $1,500,000.

Pa., Phila.—SALES and SERVICE—Logan Oakland Motor Co., 4718 North Broad St., having plans prepared by Thalheimer & Weiss, Wesley Bldg., 3 story and basement, 60 x 158 ft., rein.-con. and brick, plain foundation, 4718 North Broad St.

Tenn., Memphis — GARAGE — Memphis Natl. Garages, F. Callahan, atty., U. & P. Bank Bldg., and Caldwell Co., 1408 Broad St., Nashville; having plans prepared by Marr & Holman, Stahlman Bldg., 9 story, rein.-con. and terra cotta, incl. 4 elevators, etc., North Front and Court Sts. $1,000,-000.

Tenn., Memphis—STORE—S. H. Kress & Co., 82-84 South Main St., and 114 5th Ave., New York City, soon takes bids 4 story, rein.-con., brick and steel, North Main St. $400,000. Private plans.

Ky., Louisville—AUDITORIUM—Louisville Memorial Auditorium, W. E. Morrow, secy., having plans prepared by T. Hastings, 52 Vanderbilt Ave., New York City, N. Y., memorial auditorium, 4th and Kentucky Sts. $1,000,000.

O., Uhrichsville—HOTEL—Chamber of Commerce plans hotel. $198,000.

Mich., Detroit—HOTEL—A. Kahn, archt., 1000 Marquette Bldg. takes bids about Aug. 25, 21 story and basement, 70 x 130 ft., rein.-con., brick and steel, plain foundation, incl. extension present steam heating system, Fort St., for Fort Shelby Hotel Co., Fort St.

Ill., Chicago—APARTMENT—Friedman Constr. Co., 80 West Washington St., soon takes bids 7 story and basement, 72 x 150 ft., rein.-con., brick and stone incl. 3 elevators, etc., 5232 Harper Ave. $600,000. T. Bishop, 35 South Dearborn St., archt.

Ia., Davenport—BANK and OFFICE—Amer. Commercial & Savings Bank, 230 Main St., had plans prepared by Weary & Alford, 1923 Calumet Ave., Chicago, Ill., and Clausen, Kruse & Klein, Kahl Bldg., 14 story and basement, 100 x 150 ft., rein.-con., brick and stone, Main St. and 3rd Ave. $1,500,000. Noted July 29.

Minn., Minneapolis — THEATRE — H. Dryer, 305 Hennepin Ave., and W. Weisman, 600 Temple Court Bldg., having plans prepared by Liebenberg & Kaplan, 617 McKnight Bldg., rein.-con. and brick, incl. steam heating, Gateway Dist. $300,000.

Mo., St. Louis—POLICE STATION—St. Louis Metropolitan Police Dept., A. C. Orrick, pres. bd. comrs., soon takes bids 5 story and basement, 137 x 216 ft., brick, concrete, steel and stone, Clark and 12th Sts. Mauran, Russell & Crowell, Chemical Bldg., archts. Noted Apr. 15.

Ark., Texarkana — DEPOT — Missouri-Pacific R.R. Co., Railway Exch. Bldg., St. Louis, Mo., E. A. Hadley, ch. engr., Texas & Pacific R.R. Co., Dallas, Tex., A. F. Mitchell, ch. engr., St. Louis Southwestern R.R. Co., Tyler, Tex., W. S. Hanley, ch. engr., and Kansas City Southern R.R. Co., Kansas City, Mo., A. N. Reese, ch. engr., take bids about Feb. 5, 2 story and basement, rein.-con., brick, steel and stone union depot, here. $1,300,000. Noted Feb. 18.

Tex., Beaumont—BANK and OFFICE—Amer. Natl. Bank, c/o C. H. Stroeck, vice.-pres. and cashier, 510 Pearl St., having preliminary plans prepared 10 story and basement, 50 x 140 ft., brick, stone and rein.-con., incl. plumbing, heating and elevators, Orleans St. near Crockett St. $300,000. Engineer and architect not announced.

Tex., Ft. Worth — HOSPITAL — W. I. Cook Estate, c/o W. I. Cook, Albany, and E. E. Bewley, trustee, 1305 Summit St., had preliminary plans prepared by W. G. Clarkson, 1st Natl. Bank Bldg., 3 story and basement, incl. plumbing, heating, elevator, etc., Lake and North Sts. $175,000.

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Buildings—Commercial (Continued)

Tex., Houston—HOTEL—B. V. Christie, Great Southern Life Bldg., and D. A. Singer, 1st Natl. Bank Bldg., and associates, having plans prepared by J. Finger, 711 Keystone Bldg., 10 or more story, brick, stone and rein.-con., incl. heating, elevators, etc. Prairie Ave. and Main St. $500,000.

Tex., Pampa—HOTEL—A. Snyder & Son, plan 5 story, brick and rein.-con. hotel. $175,000. Engineer and architect not selected.

Tex., Paris—OFFICE and APARTMENT—Good Home & Investment Co., c/o president, having preliminary plans prepared by Curtis & Lightfoot, Paris, 10 story, brick, stone and rein.-con. office and apartment building. $160,000.

Tex., Waco — STORE and OFFICE — Waco Development Co., c/o A. Sanger, pres., and A. T. Clifton, secy., having plans prepared by M. W. Scott & Co., 412½ Franklin St., 12 story and basement, 100 x 165 ft., brick, stone and rein.-con., incl. steam heating, plumbing, elevators, etc., Austin and 4th Sts. $700,000.

Calif., Los Angeles—CLUB and GARAGE—Central Auto Club, c/o C. S. Cobb, archt., Bank of Italy Bldg., having plans prepared 10 story and basement, 160 x 180 ft., rein.-con., 8th St. and Grand Ave. To exceed $650,000.

Calif., Los Angeles—GARAGE—Chapman Bros. Co., 3469 W. 6th St., had plans prepared by R. H. Orr, 1305 Corporation Bldg., 6 story, 90 x 275 ft., rein.-con. and stone. To exceed $150,000.

Calif., Los Angeles — OFFICE — P. S. Wright et al., c/o Dodd & Richards, archts., Brack Shops Bldg., plans 12 story and basement, Class "A," 5th and Fuguero Sts. To exceed $850,000.

Calif., Marysville — THEATRE — Natl. Theatres Syndicate, 25 Taylor St., San Francisco, having plans prepared by Bliss & Fairweather, Balboa Bldg., San Francisco, replacing structures destroyed by fire. $250,000.

Calif., Oakland—STORE and OFFICE—F. W. Maurice, 1362 East 25th St., Los Angeles, having plans prepared by D. M. Crooks, 532 16th St., 4 story, steel and concrete, 31st Ave. and East 14th St.

Calif., Redwood City — HOTEL — Hotel Woodside Co., c/o C. H. Barrett, archt., Washington Hotel, San Francisco, having plans prepared 5 story and basement, steel, incl. golf course, Woodside Acres Tract, here. $2,000,000.

Calif., San Francisco—APARTMENT—T. F. and J. J. Bell, c/o E. H. Denke, archt., 1317 Hyde St., having plans prepared 15 story and basement, Jones St. near Turk St. $500,000.

Calif., San Francisco—APARTMENT—E. V. Lacey, Hearst Bldg., plans 12 story and basement, 50 x 87½ ft., Mason St. near Sutter St. $200,000 or more.

Calif., San Jose—BANK and OFFICE—First Natl. Bank, having plans prepared by H. H. Winner Co., 55 New Montgomery St., San Francisco, 2 or more stories, Class "A," Santa Clara and 1st Sts. $150,000.

Calif., San Leandro—APARTMENT—C. Williams, c/o F. H. Reimers, archt., Tribune Tower, having plans prepared twelve 2 story, frame and stucco, East 14th St., here. $150,000.

Calif., Santa Monica — CLUB — Los Angeles Athletic Club, c/o E. Bergstrom, archt., Citizens Natl. Bank Bldg., Los Angeles, plans part 1 and 2 story, rein.-con. club building. To exceed $150,000.

T. H., Honolulu—OFFICE—Alexander & Baldwin, c/o Dickey & Wood, archts., Damon Bldg., having plans prepared 3 story, rein.-con. office building. $750,000.

T. H., Honolulu — WAREHOUSE and OFFICE—Hawaiian Pineapple Co. having plans prepared by Dickey & Wood, Damon Bldg., rein.-con. warehouse and office buildings, here. $475,000.

Bids Desired

Mass., Amesbury — HOSPITAL — Amesbury Hospital, c/o Kendall, Taylor Co., 142 Berkley St., Boston, taking new bids 3 story and basement, brick, plain foundation Main St. $200,000. Former bids rejected. Noted July 29.

Mass., Arlington — APARTMENT — See "Contracts Awarded."

Mass., Boston—STORE and OFFICE—Sears Estate, c/o F. W. Woolworth Co. (lessee), 31 St. James Ave., taking bids altering and constructing 6 story and basement, brick, 55 Summer and 18 Chauncy St. $150,000. Private plans.

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Mass., Brookline (br. Boston)—STORE and OFFICE—See "Contracts Awarded."

Mass., Cambridge (Boston P. O.) — GARAGE—See "Contracts Awarded."

Conn., New Britain — APARTMENT — F. O. Rackliffe, 256 Park St., taking bids 3 story and basement, brick and steel, Glen St. $150,000. F. C. Teich, 17 Frederick St., archt. Noted July 29.

N. Y., Brooklyn—APARTMENTS—See "Contracts Awarded."

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., New York—HOTEL—See "Contracts Awarded."

N. Y., New York—OFFICE—See "Contracts Awarded."

N. Y., New York—SERVICE—Aug. by L. I. Harris, pres. Bd. Health, 505 Pe... St., constructing service building ... Grounds Riverside Hospital, North Brot... Island, Bronx Boro.

Pa., New Castle — HOTEL — Castle... Hotel taking bids 6 story and baseme... approximately 100 x 100 ft., brick, st... and steel hotel. $750,000. W. G. Eck... & Son, New Castle, archts.

Ind., Evansville—HOSPITAL—Aug. ... by Insane Hospital, A. C. Richardt, pr... Newburg Rd., rein.-con., brick and st... hospital. $250,000. Fowler & Karg... Furniture Bldg., archts. Noted July 1.

Ill., Chicago—APARTMENT HOTEL—... Sept. 1, by D. S. Klafter, archt., 64 W... Randolph St., 7 story and basement, 55 ...

STATION FINISH—NEW YORK, N. Y.

Bids were opened by Board of Transportation, 49 Lafayette St., June 7, for station finish work at Times Square Station, of Rapid Transit R.R., Routes 35 and 67, (A) Ascher Eng. & Constr. Co., 1457 Bway. (contract awarded); (B) M. F. Kelly Bldg. Corp., Grand Central Terminal; (C) N. A. Deiser, 280 Madison Ave.; (D) J. B. Roberts & Co., 949 Bway.; (E) G. Colon Constr. Co., Inc., 81 East 125th St.; D. C. Serber, Inc., Grand Central Terminal, $202,252; Werner-Mitchell Co., Inc., 1 DeKalb Ave., Brooklyn, $205,534. The unit bids of the lowest four and highest bidders are as follows:

	A	B	C	D	E
W. G. tile 3x6 in.					
22,000 sq.ft. (*a*) straight	$1.15	$1.43	$1.35	$1.50	$1.25
150 sq.ft. (*b*) 1 in. radius	2.50	2.59	2.50	2.60	2.70
200 sq.ft. (*c*) 2½ in. radius	2.70	3.03	2.90	3.00	3.00
200 sq.ft. (*d*) 20 in. radius	2.50	3.03	2.90	3.07	3.50
W. G. tile 4¼x4¼ in.					
22,000 sq.ft. (*a*) straight	1.15	1.43	1.35	1.50	1.25
100 sq.ft. (*b*) 1 in. radius	2.50	2.59	2.50	2.60	2.70
600 sq.ft. (*c*) 2½ in. radius	2.70	3.03	2.90	3.00	3.00
400 sq.ft. (*d*) 20 in. radius	2.50	3.03	2.90	3.07	3.50
W. P. vitrified and semi-vitrified colored					
5,500 sq.ft. (*a*) straight	2.00	2.26	2.20	2.31	2.25
10 sq.ft. (*b*) 1 in. radius	3.25	2.64	2.50	3.00	4.00
80 sq.ft. (*c*) 2½ in. radius	3.50	3.08	3.00	3.10	5.00
80 sq.ft. (*d*) 20 in. radius	3.25	3.08	3.00	3.25	5.50
3,000 sq.ft. mosaic and tile bands	2.90	3.19	3.10	3.17	2.30
Plaques mosaic and tile					
70 (*a*) on station walls	5.00	4.18	4.25	4.17	8.00
50 sq.ft. tablets mosaic and tile	4.00	4.07	4.00	4.14	5.00
Plastering					
500 sq.yd. (*a*) concrete, brick, h.t.	1.25	1.38	1.50	1.40	3.00
70 sq.yd. (*c*) hydrolithic	1.50	5.83	2.00	1.55	3.00
Cement work					
200 sq.ft. (*a*) wainscot and bases	.35	.33	.36	.32	1.25
600 sq.ft. (*d*) finish on concrete brick, h.t.	.25	.35	.36	.34	.30
55,000 sq.ft. (*j*) 3 in. floor finish	.20	.22	.28	.30	.30
Concrete work					
100 cu.yd. (*b*) foundations	25.00	13.20	16.50	17.00	30.00
60 cu.ft. (*c*) reinforced (other than coping-stairs)	1.40	.61	1.50	1.00	1.25
100 cu.ft. (*d*) protective columns, beam, etc.	1.20	.61	1.10	1.20	3.00
200 cu.ft. (*i*) copings and landings (street)	1.50	.61	2.50	1.40	2.00
350 cu.ft. (*j*) copings (other than street)	1.50	.61	2.75	1.65	3.00
Concrete stairs, landing					
2,200 ft. tread (*a*) self-supporting	1.85	1.76	2.20	2.30	3.00
25 sq.ft. (*b*) self-supporting landings	1.50	1.98	1.00	1.50	1.40
900 ft. tread (*c*) supported	1.25	1.21	1.40	1.90	200
850 sq.ft. (*d*) supported landings	.50	1.38	.50	1.10	1.20
600 lin.ft. (*g*) cement bases and wall strings	.30	.33	.35	.38	1.00
250 lin.ft. (*h*) cement finished on exposed sides	.30	.35	.35	.32	.30
2,200 sq.ft. nonslip tile treads	1.90	3.03	2.05	1.73	4.00
7,000 cu.ft. brick masonry (*c*) common	1.20	1.27	1.45	1.39	1.50
Hollow tile masonry					
100 cu.ft. (*a*) 2 in	1.50	1.72	1.60	1.70	2.00
7,000 cu.ft. (*b*) 3 in	1.20	1.23	1.40	1.21	1.50
1,500 cu.ft. (*c*) 4 in	1.00	.99	1.25	.95	1.50
650 weepholes in h.t. sidewalks	.35	.55	.50	.30	.50
200 galvanized strap anchors	1.00	.28	.75	.80	1.00
500 metal lath, wire mesh (*d*) special wire forms	.12	.09	.25	.16	.30
3 masonry change booth (*aa*) type "1Ba"	1,400.00	1,650.00	1,500.00	1,320.00	2,500.00
Metal toilet stall partitions					
2 (*a*) men's toilet	90.00	90.00	90.00	85.00	120.00
2 (*b*) women's toilet	90.00	99.99	100.00	95.00	120.00
1 (*c*) posts	25.00	28.28	17.00	15.00	20.00
Removable Kalamein panel (Sect. 113.1 (lump sum)	150.00	83.00	75.00	52.00	120.00
Kalamein doors					
2 (*b*) type "B"	100.00	67.00	125.00	114.00	175.00
1 (*c*) type "C" (per pair)	130.00	95.00	125.00	121.00	117.00
14 (*d*) type "D"	70.00	67.00	70.00	64.00	125.00
3 (*dd*) type "Da"	65.00	55.00	60.00	54.00	75.00
1 (*e*) type "E"	60.00	50.00	70.00	61.75	75.00
2 (*g*) type "G" (per pair)	75.00	65.00	75.00	69.00	70.00
70 (*k*) type "K"	50.00	50.00	4.00	47.40	50.00
20 (*kk*) type "KK" (per pair)	60.00	70.00	8.00	75.00	65.00
3 (*m*) type "M"	70.00	65.00	75.00	77.00	110.00
1 (*p*) type "P"	40.00	42.00	45.00	38.00	40.00
Kalamein windows					
200 sq.ft. (*a*) double hung	4.00	3.00	4.50	4.10	4.50
Additional hardware					
20 (*b*) extra heavy door checks	9.00	8.80	9.00	8.72	8.00
12 (*c*) overhead stops	4.25	4.51	4.50	4.60	4.00
12 (*d*) swing door stops	5.00	5.12	5.00	5.20	4.75
4 (*e*) rubber covered chains	4.00	3.93	4.00	4.00	3.15
2 (*f*) heavy mortise dead lock	6.00	6.00	6.00	7.00	5.50
8 (*h*) pin tumbler cabinet locks	4.50	4.18	4.25	5.80	3.75
2 (*m*) push plates bronze	7.50	6.84	7.00	7.00	6.50
2 (*n*) heavy door pulls, steel	4.00	.55	1.00	2.00	.50
2 (*o*) heavy door pulls, bronze	9.00	8.65	8.50	8.90	8.00
2 (*q*) kick plates, bronze (per pair)	17.50	17.91	17.50	19.50	16.50
20 (*r*) heavy mortise locks (5 tumbler)	15.00	14.64	14.50	16.00	13.25
2 (*t*) heavy mortise latches	15.00	12.65	13.00	13.00	11.50
2 (*x*) hasp and staples or pad lock eyes	2.50	.83	1.00	1.00	1.00
6 (*bb*) heavy mortise flush bolts	4.00	2.92	3.00	5.90	3.00
4 (*dd*) coat hooks	.75	.39	1.00	.70	.50

	A	B	C	D	E
Railing					
600 lin.ft. (*a*) type "FS"	8.00	4.95	5.00	5.34	5.50
550 lin.ft. (*aa*) type "FSa"	9.00	5.23	5.50	4.51	5.80
300 sq.ft. (*c*) type "GS"	1.50	1.21	1.25	1.39	2.00
180 lin.ft. (*e*) type "LS"	9.00	6.60	6.50	6.99	7.00
500 sq.ft. (*f*) type "BS"	2.50	2.42	2.50	2.60	3.00
50 lin.ft. (*g*) pipe	3.00	3.63	4.00	4.24	4.00
Gates and appurtenances					
25 lin.ft. (*b*) sliding	25.00	13.20	13.00	13.64	15.00
6 lin.ft. (*d*) swing	15.00	13.20	13.00	13.64	15.00
2 (*a*) additional high posts	20.00	16.50	17.00	18.70	20.00
5 (*c*) steel gate posts (per gate open)	60.00	55.00	55.00	60.50	60.00
Grilles and frames					
5 (*b*) 18x32 in. c.i. movable louvres	60.00	38.50	40.00	39.27	40.00
Signs					
10 lin.ft. (*f*) enameled reflectors walls	8.00	6.60	6.50	6.60	8.00
650 sq.ft. (*g*) enameled sign plates	1.60	1.82	1.80	1.65	2.00
150 sq.ft. (*h*) frame suspended direction	4.50	5.23	2.75	2.88	3.00
6 (*mm*) frame sta. name suspended	40.00	31.90	30.00	31.90	35.00
Street railings					
80 lin.ft. (*b*) type "K1"	25.00	23.10	19.00	19.09	20.00
Steel ladders, platform					
30 ft. tread (*a*) with treads (lin.ft. tread)	4.00	2.30	8.00	8.25	8.00
3,500 per lb. (*f*) miscellaneous steel shapes	.20	.08	.07	.09	.10
500 per lb. (*j*) steel rods and bars in concrete	.12	.05	.07	.07	.10
40 lin.ft. (*k*) with rungs	5.00	5.45	2.25	2.30	3.00
200 miscellaneous iron castings	.25	.24	.25	.24	.50
2,300 lin.ft. handrails (*a*) oak	1.50	1.65	2.00	1.70	1.50
50 lin.ft. remove existing handrail and resetting	1.50	1.10	1.30	1.50	3.00
960 lin.ft. platform edge construction	1.00	1.65	.65	.97	1.25
Rough plumbing					
(*a*) Times Sq. sta. (lump sum)	3,500.00	2,200.00	11,060.00	3,250.00	5,000.00
Floor drainage fittings					
45 (*b*) c.i. cover for inlets	10.00	7.70	10.00	12.00	12.00
8 (*c*) cleanouts	5.00	3.30	10.00	12.00	12.00
30 (*e*) drain outlet boxes	10.00	24.20	20.00	23.00	25.00
Plumbing fixtures					
4 (*a*) water closet bowls	100.00	92.40	80.00	88.00	90.00
2 (*b*) lavatories in station	80.00	77.00	70.00	80.00	80.00
3 (*c*) lavatories in enclosures	80.00	71.50	70.00	70.00	80.00
2 (*d*) urinals	150.00	74.80	125.00	135.00	140.00
1 (*g*) stop sinks in closets	75.00	71.50	75.00	80.00	85.00
6 (*j*) floor push button boxes	60.00	48.40	45.00	51.00	50.00
Structural slate					
170 sq.ft. (*n*) pipe chamber partitions	1.50	1.93	1.90	2.00	3.00
35 lin.ft. (*r*) curved corners and angles	2.25	2.48	2.50	2.57	5.00
770 steel angles, etc., supporting slate (per lb.)	.20	.17	.17	.17	.20
C.i. and steel reg. faces, frames					
6 (*a*) in pipe chamber partition	12.00	13.20	15.00	14.00	10.00
W.i. and steel electric conduits					
2,000 lin.ft. (*a*) ¾ in.	.40	.46	.35	.36	.45
4,350 lin.ft. (*b*) 1 in.	.45	.53	.40	.46	.52
750 lin.ft. (*c*) 1½ in.	.75	.83	.55	.75	.82
430 lin.ft. (*d*) 2 in.	1.00	1.03	.85	.90	1.00
10 special conduit with removable covers	10.00	2.48	3.50	1.50	3.00
155 c.i. outlet boxes	3.00	1.69	1.50	1.38	2.00
C.i. pull boxes					
1 (*e*) 12x6x4 in.	20.00	30.25	33.00	12.00	30.00
60 (*f*) 6x6x4 in.	6.00	6.66	4.50	4.90	6.75
2 (*l*) 8x8x4 in.	8.00	9.68	5.50	8.00	9.50
8 (*m*) 12x12x4 in.	9.00	18.70	10.00	14.00	20.00
4 c.i. heater boxes	40.00	31.46	60.00	38.00	32.00
Steel panel board boxes					
6 (*l*) 27x6x49 in.	60.00	66.55	60.00	67.00	65.00
1 (*p*) 52x6x49 in.	80.00	89.54	65.00	82.00	90.00
Painting					
5,000 sq.ft. (*a*) 2 coat iron or steel	.05	.09	.055	.06	.055
35,000 sq.ft. (*b*) 3 coat iron or steel	.07	.12	.065	.065	.07
70,000 sq.ft. (*c*) 2 coat on concrete	.05	.06	.055	.055	.055
150 (*d*) letters and numerals	.20	.22	.20	.11	.12
30,000 sq.ft. (*i*) additional coat	.01	.03	.005	.01	.025
Remove and reset doors and windows					
1 (*a*) doors	100.00	55.00	30.00	25.00	50.00
60 lin.ft. remove, reconstr., re-erect street railing, Sect. 134.1	5.00	5.50	5.50	6.40	10.00
2 remove, re-erect suspend sign frames, Sect. 137.1	15.00	19.80	20.00	23.00	20.00
15 lamp posts	50.00	19.80	55.00	30.00	70.00
Remove, clean, reset, plumbing fixtures, Sect. No. 174.2 (lump sum)	500.00	825.00	850.00	1,000.00	5,000.00
Imitation granite coping, Sect. No. 3.2 (lump sum)	1,500.00	1,267.20	000.00	395.00	5,000.00
Extended totals	$178,712	$195,603	$196,836	$198,812	$219,056

Buildings—Commercial (Continued)

175 ft., rein.-con., brick and stone, incl. 2 elevators, refrigerating machine, etc., 6137-39 Kenwood Ave., for J. Glasser, 4826 Sheridan Rd. $650,000.

Calif., Alameda—HOTEL—Slocombe & Tuttle, archts., 337 17th St., Oakland, taking bids 3 story, rein.-con. Bway. near Central Ave, here, for Alameda Community Hotel Corp., c/o architects. $250,000.

Calif., Pasadena—OFFICE—Campbell-Joralmon-Rowley Co., Inc., Washington Bldg., Los Angeles, taking bids 8 story and basement, 48 x 100 ft., brick and terra cotta, Mentor Ave. and Boston Court, here. $400,000. W. S. Hebbard, I. W. Hellman Bldg., Los Angeles, archt.

Calif., Pasadena—STORE and OFFICE—W. S. Hebbared, archt., I. W. Hellman Bldg., Los Angeles, taking bids 8 story and basement, 48 x 100 ft., rein.-con. brick and terra cotta, Mentor Ave. and Boston Court, for Campbell-Joralmon-Roweley Co., Inc., Washington Bldg. $250,000 or more.

Contracts Awarded

Me., Skowhegan — TEMPLE — Masonic Temple Assn., 3 story, 50 x 100 ft., brick and stone, Main St., to L. H. Applyby, 15 Jewett St. Archts. est. $150,000. Noted July 15.

N. H. Keene—BANK—Keene Natl. Bank, 1 and 2 story and basement, rein.-con., brick and steel, plain foundation, Central Sq., to S. Belanger & Son, 308 Main St., Nashua. Archts. est. $150,000. Noted July 22.

Mass., Arlington—APARTMENT—W. J. Robinson, 14 Webster Ave., will build 4 story and basement, 70 x 80 ft., brick and steel, plain foundation, 389 Massachusetts Ave. $150,000. Work will be done by separate contracts. D. T. Cormier, 15 Herbert St., Somerville, archt.

Mass., Boston—HOSPITAL—City, Hospital Dept., Health Unit 3, 3 story and basement, 55 x 85 ft., brick, limestone and granite, plain foundation, Dorchester St., South Boston, to I. F. Woodbury & Sons Co., 185 Summer St., Boston, $236,768. Noted July 15.

Mass., Brookline (br. Boston)—STORE and OFFICE—A. Kaplan, 28 Pasadena Rd., Dorchester, will build 3 story and basement, brick and stone, plain foundation, Harvard Ave. $150,000. Work will be done by separate contracts. S. E. Moffie, 46 Cornhill, Boston, archt.

Mass., Cambridge (Boston P. O.) — GARAGE—Lesser & Levine, c/o Miller & Levi, archts., 46 Cornhill, Boston, will build 1 story, 46,000 sq.ft. floor space, brick and stone, plain foundation, Main, Albany and Portland Sts. $200,000. Work will be done by separate contracts.

Mass., Dorchester (Boston P. O.) — MARKET—Uphams Corner Market Co., 600 Columbia Rd., altering and constructing 3 story, rein.-con., brick and stone, plain foundation addition, to O. H. Drisko & Son, 46 Cornhill, Boston. Archts. est. $150,000. Noted July 29 under "Boston."

Mass., Everett (br. Boston)—BANK—Everett Natl. Bank, 453 Bway., 3 story and basement, 80 x 100 ft., rein.-con., brick, stone and steel, plain foundation, Bway. and Cottage Sts., to Hudson Constr. Co., 11 Beacon St., Boston. Archts. est. $150,000. Noted July 15.

Mass., Greenfield—HOSPITAL—Franklin Co. Pub. Hospital, H. G. Stetson, chn., enlarging and improving 3 story and basement, brick, incl. nurses home, boiler house, etc., to G. W. Read, Montague City. Archts. est. $300,000. Noted July 8.

Mass., Malden (br. Boston)—MARKET and OFFICE—J. B. Blood Co., A. K. Blood, in charge, 9 Summer St., Lynn., 2 story and basement, irregular, Main St., here, to W. T. Reed Co., 201 Devonshire St., Boston. Archts. est. $175,000. Noted May 13.

R. I., Providence—STORE and OFFICE—Westminster Investment Co., c/o S. F. Hall, archt., Union Trust Bldg., 2 story and basement, brick and stone, plain foundation, to E. Wilkinson & Co., 189 Pine St. Archts. est. $150,000. Noted July 15.

N. Y., Albany — APARTMENT — Eloise Corp., T. A. Gallagher, pres., 73 Elm St., general contract 8 story, rein.-con. brick and steel, Western and Lake Aves., to Cassidy & Gallagher, 73 Elm St. Archts. est. $750,000.

N. Y., Brooklyn — APARTMENTS — W. Kraslow, c/o Shampan & Shampan, engrs. and archts., 188 Montague St., will build 2 brick, steel and stone apartments, plain foundations, Ft. Hamilton Parkway, by day labor. $400,000 each.

N. Y., New York—APARTMENT—J. M. Guthy Building Co., c/o C. Schaefer, archt., 148th St. and 3rd Ave., will build brick, steel and stone, plain foundation, Carpenter Ave. and 228th St., by day labor. $175,000.

N. Y., New York — HOTEL — Paterno Bros., Inc., c/o J. E. R. Carpenter, archt., 598 Madison Ave., will build 23 story, brick, steel and stone, plain foundation, 824 5th Ave. $1,000,000. Work will be done by separate contracts.

N. Y., New York — OFFICE — H. I. Chanin, 285 Madison Ave., will build 45 story, brick, steel and stone, plain foundation, Lexington Ave. and 42nd St. $8,000,000. Work will be done by separate contracts.

N. Y., New York — PAVILION — Bd. Health, L. I. Harris, pres., 505 Pearl St., general contract isolation pavilion on grounds Willard Parker Hospital, foot East 16th St., to Eastern Constr. Co., 110 West 20th St., $137,000. Noted Aug. 12.

N. Y., New York — THEATRE and OFFICE — W. A. R. Realty Co., 238 Williams St., c/o New York Evening Journal, 6 story, brick, steel and stone, 951 8th Ave., to J. Lowry, Inc., 270 Madison Ave. Archts. est. $750,000.

N. J., Camden—GARAGE—Kenwood Co., 515 Market St., general contract 4 story, brick, steel and stone, Haddon Ave. and Carman St., to Van Asdlen Constr. Co., 812 Stock Exchange Bldg., Phila., Pa. Archts. est. $350,000.

Pa., Pittsburgh — SALES and WAREHOUSE—Suburban Electric Development Co., general contract 3 story and basement, 80 x 200 ft., brick, steel and concrete, Penn Ave., to D. T. Riffle, 1006 Forbes St. Archts. est. $250,000.

Fla., Tallahassee—OFFICE—Bd. Comrs. State Institutions, Governors Office, State Capitol Bldg. 3 story, brick office buildings, to C. A. Fulghum, plumbing, to J. D. Points, Palatka; and heating, to J. L. Powers, Bennettsville, S. C. Noted July 22.

Tenn., Memphis—OFFICE—C. F. Farnsworth, 1st Natl. Bank Bldg., general contract 12 story, marble, brick, stone and terra cotta, incl. elevators, etc., to H. J. Gilbertson Constr. Co., Graham Bldg., $400,000; plumbing, to Prichard Bros., Memphis, $60,000; heating, to Fisher Heating Co., 51 South 3rd St., $25,000; and electrical work, to Electric Novelty Co., 124 Monroe St., $25,000. Grand total $510,000. Noted July 22.

La., Shreveport — BUSINESS—Thomas-Ogilvie Hardware Co., c/o R. J. Ogilvie, pres., 4 story and basement, 90 x 206 ft., rein.-con., Jones St. between Spring and Market Sts., incl. 2 high speed elevators, steam heating, etc., to W. H. Werner, Commercial Natl. Bank Bldg., $137,830.

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Buildings—Commercial (Continued)

O., Lorain—TEMPLE—Lorain Masonic Temple Building Co., G. Case, pres., 4 story and basement, 55 x 132 ft., brick, steel and concrete, 4th and Washington Sts., to A. J. Leighton, 783 6th St. Archts. est. $200,000.

O., Massillon—HOTEL and THEATRE—Agathon Hotel Co., J. E. Frawley, pres., 10 story and basement, 100 x 143 ft., brick, steel and concrete, to A. F. Wendling Co., Massillon. Archts. est. $1,000,000.

Ind., Gary—OFFICE and THEATRE—N. Bikos, general contract brick and steel, to C. Verplank, 844 Van Buren St. Archts. est. $150,000.

Ind., Gary—STORE and OFFICE—E. A. Barger, general contract, 3 story and basement, 50 x 135 ft., brick, steel and rein.-con., to Bennett & Livingston, 801 Grant St. Archts. est. $200,000.

Ill., Chicago — HOSPITAL — D. G. Wallace, archt., 22 West Monroe St., masonry and carpentry contract 9 story and basement, 55,000 cu.ft. floor space, rein.-con., stone and terra cotta hospital addition, to W. E. O'Neil Constr. Co., 19 South La Salle St., for Jackson Park Hospital, 7531 Stoney Island. $250,000.

Ill., Chicago — OFFICE and STORE — Madison Street Building Corp., c/o De Wolf & Co., 110 South Dearborn St., general contract 16 story and basement, 89 x 180 ft., 173-181 West Madison St., to L. Balkin, 1852 West Austin Ave. Archts. est. $2,500,000. Noted Dec. 24.

Ill., Chicago — OFFICE and WHOLESALE—Houghton-Mifflin Co., 2 Park St., Boston, Mass., general contract 6 story, 90 x 180 ft., rein.-con., brick and artificial stone, East 25th St. and Prairie Ave., to W. Adams Co., 209 South La Salle St.

Ill., Quincy—STORE—S. S. Kresge Co., Kresge Bldg., Detroit, Mich., 6 story and basement, concrete, brick and stone, Main St., to Clarke Constr. Co., Danville.

Kan., Wichita—APARTMENT—Schmidt, Boucher & Overend, archts., 4th Natl. Bank Bldg., Hillcrest Apartments, 10 story and basement, 120 x 206 ft., rein.-con. and stone, plain foundation, to Ellis & Singleton Constr. Co., 205 Brosins Bldg., for Douglas-Rutan Building Co., 1601 Woodrow St. $675,000. Noted July 1.

Neb., Omaha—BANK and OFFICE—Union State Bank, 16th and Dodge Sts., 7 story and basement, 68 x 132 ft., rein.-con., 19th and Farnum Sts., to P. Kiewetts Sons, Omaha Natl. Bank Bldg. Archts. est. $600,000. Noted June 24.

Tex., Ft. Worth — OFFICE — R. O. Dulaney, F. & M. Bank Bldg., 12 story and basement, 95 x 100 ft., brick, stone and rein.-con., incl. elevators, 6th and Throckmorton Sts., to H. B. Friedman, 402 1st Natl. Bank Bldg., about $700,000.

Tex., Houston—THEATRE and OFFICE—J. H. Jones, Bankers Mortgage Bldg., 10 story and basement, 75 x 100 ft., rein.-con., brick and stone, incl. heating, plumbing, elevators, etc., Fannin St. between Walker and McKinney Sts., to Hewitt Constr. Co., 532 Bankers Bldg., $650,000 cost plus percentage basis.

Tex., San Antonio — HOTEL — Baker Hotels, Inc., c/o T. B. Baker, c/o Gunter Hotel, general contract 3 story, brick and concrete addition, plain foundation, St. Marys and Houston Sts., to Inge & Burgher, Inc., 1307 Main St., Dallas, approximately, $650,000. Noted July 8.

Okla., Tulsa — GARAGE — F. Casebeer, 1020 East 18th St., 6 story and basement, 75 x 140 ft., rein.-con. and brick, plain foundation, to G. D. Morrow & Son, 607 Kennedy Bldg., $205,500.

Calif., Alhambra—STORE and OFFICE—W. P. Temple, 4 story and basement, 100 x 145 ft., brick, terra cotta and steel, Main and 3rd Sts., to H. M. Baruch, I. W. Hellman Bldg., Los Angeles, $176,700. Noted July 15.

Calif., Los Angeles—APARTMENT—F. S. Richmond, 9 story and basement, rein.-con. and steel, Franklin Ave., to J. C. Bannister, 6331 Hollywood Blvd., approximately $250,000.

Calif., Los Angeles—HOTEL—H. I. Armstrong, 240 Beverly Dr., Beverly Hills, 4 story and basement, 180 x 125 ft., brick, Wilcox Ave., to Simpson Constr. Co., Bank of Italy Bldg., approximately $300,000.

Calif., Los Angeles — STORE and OFFICE — Financial Dist. Building Corp., 3 story and basement, 65 x 159 ft., brick and terra cotta, incl. steam heating system, 1st St. and Bway., to H. H. Hinds, 351 South Hoover St., $770,000.

Calif., Pasadena — LODGE — Bennett & Haskell, archts., Security Bldg., 2 story and basement, 108 x 137 ft, Class "A," South Euclid Ave., to Hogan Co., 379 East Colorado St., for Masonic Orders of Pasadena. Approximately $250,000. Noted Aug. 5.

Calif., San Francisco—APARTMENT—Jones-California Co., Inc., c/o Weeks & Day, archts., 315 Montgomery St., 15 story and basement, Jones and California Sts., to Cahill Bros., Sharon Bldg., $1,000,000 or more.

Calif., San Francisco—WAREHOUSE—Ames, Harris & Neville Co., 37 Front St., general contract 4 story, rein.-con., 17th and Alabama Sts., to Cahill Bros., 55 New Montgomery St., $250,000.

Calif., San Pedro—BANK and OFFICE—Bank of San Pedro, 2 story and basement, brick, 7th and Mesa Sts., to M. Regan & Co., 2403 South Grand Ave., $158,500.

Calif., San Pedro — OFFICE — Channel Building Corp., 10 story and basement, 66 x 325 ft., rein.-con., Front and 1st Sts., to J. M. Cooper, Rives-Strong Bldg., Los Angeles. Noted Nov. 26.

Buildings—Industrial

Proposed Work

Mass., Dorchester (Boston P. O.)—POWER HOUSE — City, Transit Dept., Beacon St., Boston, having plans prepared 1 story, rein.-con., brick and steel, Harrison Sq., here. $800,000. E. F. Springer, 1 Beacon St., Boston, engr.

Mass., East Boston (sta. Boston)—PLANT—Atlantic Wks., 80 Border St., plans rebuilding plant, Border St. To exceed $150,000. Engineer and architect not selected.

Conn., Hartford—PLANT—Arrow Electric Co., 103 Hawthorne St., plans plant addition. $40,000 or more. Engineer and architect not selected.

Conn., Winsted—FACTORY—Strand & Sweet Mfg. Co., Meadow St., having plans prepared by Mylchreest & Reynolds, 238 Palm St., 2 story, 50 x 80 ft., brick and steel factory, $40,000.

SUBWAY—BROOKLYN, N. Y.

Bids were opened by Board of Transportation, 49 Lafayette St., for Route No. 8, Sect. No. 6-E-1, along and under Wyckoff Ave. from Halsey St. to Cooper Ave., (A) Oakdale Contracting Co., Inc., 169 Wyckoff Ave., (awarded contract); (B) Heyman & Goodman Co., Inc., 236 West 116th St., New York; (C) Corson Construction Co., 590 Fort Washington Ave.; (D) Hart & Early Co., Inc., 18 East 41st St., New York; (E) Mid East Construction Corp., 189 Montague St.; Coleman Bros., Inc., 80 Maiden Lane, $1,444,700; D. C. Serber, Inc., Grand Central Terminal, New York, $1,451,000; S. B. Mason, 17 West 60th St., New York, $1,533,604; S. Rossoff Co., Inc., $1,565,746. The unit bids of the lowest four and highest bidders are as follows:

	A	B	C	D	E
78,500 cu.yd. earth excavation	$7.10	$7.00	$8.00	$8.45	$10.40
200 cu.yd. rock excavation, boulders	15.00	7.00	15.00	8.45	10.40
11,250 cu.yd. concrete masonry in place	20.00	24.00	22.00	22.00	20.00
52,500 sq.ft. rubbing surface of concrete	.05	.10	.12	.10	.15
1,780 cu.yd. protective concrete masonry	20.00	24.00	23.00	22.00	20.00
200 cu.yd. brick masonry in place	36.25	40.00	35.00	45.00	50.00
25 sq.yd. vitrified brick lining for sewers	7.00	6.00	10.00	6.50	5.00
15 cu.yd. hollow terra cotta brick or tile masonry	33.00	40.00	35.00	45.00	50.00
200 sq.yd. plastering h.t. in duct manhole	1.50	2.00	2.50	2.50	2.00
4,760 sq.yd. waterproofing—1 ply	.55	1.00	1.00	1.00	1.00
10,700 sq.yd. 3 ply	2.00	3.00	3.00	3.00	2.50
300 sq.yd. 4 ply	2.75	4.00	4.00	4.00	3.00
100 sq.yd. 6 ply	4.00	6.00	4.50	6.00	5.00
100 sq.yd. dry ply	.60	1.00	1.00	1.00	1.00
280 cu.yd. brick in asphalt mastic—1 layer	45.00	50.00	55.00	45.00	50.00
725 lin.ft. 3 in. c.i. pipe—Class A	2.20	1.50	1.25	1.50	1.25
100 lin.ft. 4 in.—Class A	3.00	2.00	1.50	2.00	1.50
125 lin.ft. 6 in.—Class A	3.60	3.00	2.25	3.00	2.00
1,700 lin.ft. 8 in.—Class A	4.00	4.00	4.00	3.50	3.00
400 lin.ft. 4 in. standard galvanized steel pipe	1.60	2.00	1.50	3.50	1.50
35 lin.ft. 8 in.	8.00	5.00	4.00	6.00	4.00
50 lin.ft. 10 in.	10.00	7.00	5.50	7.00	5.00
50,000 duct.ft. tunnel ducts	.30	.30	.30	.30	.30
300 conduit ft. 3 in. fibre conduits	.30	.50	.40	.50	.30
1,210 ton steel riveted and rolled	123.00	120.00	130.00	120.00	125.00
1 ton architectural steel and iron	300.00	400.00	500.00	400.00	500.00
410 sq.ft. sliding doors with steel panels	8.00	7.00	7.00	5.50	5.00
1 counterbalanced emergency ex. covers	300.00	1,000.00	1,000.00	800.00	500.00
100 ton steel rods and bars	90.00	120.00	150.00	120.00	115.00
15 ton miscellaneous iron castings	300.00	200.00	350.00	200.00	170.00
2,150 lb. wire mesh	.30	.30	.50	.30	.15
2,000 lin.ft. $1\frac{3}{4}$ in. oak or ash hand rail	.60	1.00	1.00	1.00	.50
2,700 sq.ft. steel gratings for ventilation	3.50	4.00	3.50	4.50	4.00
200 sq.ft. vault lights	4.00	6.00	5.00	5.00	4.00
3,020 sq.yd. sidewalk surface restored	3.00	3.00	3.50	3.00	4.00

	A	B	C	D	E
6,000 sq.yd. street surface restored—asphalt	4 00	6 00	6 00	5 00	4 00
240 sq.yd. street surface restored—granite blocks	4 50	8 00	6 00	8 00	4 00
145 sq.yd. upper 3 in. of concrete wall	2 00	3 00	4 00	4 00	4 00
6,200 sq.yd. temporary pavement of granite blocks	2 00	3 00	3 00	3 00	2 75
2,000 lin.ft. ¾ in. steel electric conduits	50	40	40	50	50
50 lin.ft. 1½ in.	70	1 00	60	1 50	70
1,000 lin.ft. 1 in.	60	70	50	75	50
10 lin.ft. 2½ in.	2 00	3 00	1 00	3 50	80
360 4 x 4 x 3 in. c.i. outlet boxes	2 00	3 00	3 00	2 00	3 00
10 6 x 6 x 4 in. c.i. pull boxes	8 00	5 00	5 00	5 00	10 00
2 6 x 12 x 3 in. telephone boxes	15 00	10 00	10 00	10 00	10 00
140 lin.ft. 6 in. E. H. c.i. soil pipe and fittings	2 50	3 00	2 00	2 00	3 00
70 lin.ft. 3 in. E. H. c.i. soil pipe and fittings	2 00	1 50	1 50	1 50	2 00
25 lin.ft. 4 in. E. H. c.i. soil pipe and fittings	2 00	2 00	1 75	1 75	2 00
600 lin.ft. 12 in. vitrified pipe sewer	4 25	7 00	5 00	7 00	6 00
800 lin.ft. 15 in.	6 00	9 00	6 00	8 00	7 00
500 lin.ft. 18 in.	7 00	10 00	9 00	10 00	8 00
150 lin.ft. 24 in.	10 00	12 00	15 00	12 00	10 00
100 ton c.i. pipe for sewer—straight	125 00	120 00	150 00	110 00	150 00
30 ton c.i. pipe for sewer—special	270 00	250 00	250 00	220 00	250 00
50 lin.ft. 3 ft. 6 in. x 2 ft. 4 in. sewer—flat top reinforced concrete	18 00	20 00	25 00	15 00	30 00
50 lin.ft. 4 ft. 3 in. x 3 ft. 10 in. sewer—flat top reinforced concrete	20 00	30 00	30 00	25 00	40 00
50 lin.ft. 3 ft. 6 in. x 3 ft. 2 in. sewer—flat top reinforced concrete	20 00	30 00	28 00	20 00	40 00
150 lin.ft. of single track supporting electric overhead trolley	5 00	10 00	12 00	10 00	5 00
50 lin.ft. 4 in. water pipe in place	1 00	3 00	1 75	1 75	1 00
450 lin.ft. 6 in.	1 00	4 00	2 00	2 00	1 50
400 lin.ft. 8 in.	1 00	5 00	4 00	3 00	2 00
200 lin.ft. 36 in.	4 50	15 00	16 00	20 00	10 00
100 lin.ft. 48 in.	8 00	20 00	20 00	25 00	15 00
10 service connections	50 00	100 00	60 00	50 00	50 00
200 lin.ft 6 in. c.i. gas pipe in place	1 00	3 00	2 50	4 00	1 50
400 lin.ft. 8 in. c.i. gas pipe in place	1 00	4 00	4 00	5 00	2 00
100 lin.ft. 16 in. c.i. gas pipe	2 00	8 00	8 00	10 00	6 00
100 lin.ft. 6 in. steel bypass pipe on or below street surface	10 00	8 00	9 00	8 00	8 00
250 lin.ft. 8 in.	12 00	12 00	9 50	10 00	9 00
50 lin.ft. 16 in.	20 00	24 00	13 00	25 00	15 00
4,000 lin.ft. 4 in.	8 00	6 00	8 00	6 50	6 00
150 lin.ft. 16 in. overhead steel bypass	20 00	10 00	25 00	18 00	20 00
100 lin.ft. cable suspension for pipes 16 in. diameter or over	20 00	10 00	15 00	10 00	15 00
10 service connections for gas	50 00	100 00	50 00	50 00	50 00
20 ton new c.i. pipe—straight—gas and water	100 00	120 00	130 00	100 00	125 00
10 ton new c.i. pipe—special gas and water	200 00	250 00	230 00	200 00	200 00
Extended totals	$1,345,778	$1,352,763	$1,383,477	$1,400,731	$1,628,486

Buildings—Industrial (Continued)

Pa., Altoona — WHOLESALE PLUMBING—Standard Sanitary Mfg. Co., R. M. Paul, mgr., 916 11th Ave., plans 3 story and basement, 100 x 120 ft., brick, steel and concrete, wholesale house, incl. railroad siding, etc., 8th Ave. $200,000. Engineer and architect not selected.

Md., Baltimore — PLANT — Bethlehem Shipbuilding Corp. Ltd., South and Water Sts., purchased property adjoining Key Highway plant, and plans several new buildings, incl. 3 new piers, and additional dry-docks. $2,000,000.

Ga., Atlanta — REPAIR SHOPS — Pullman Co., 79 East Adams St., Chicago, Ill., purchased site from U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Blvd., Chicago, Ill., formerly owned by Pratt Eng. Co. and plans repair shops, 50,000 sq.ft. floor space. $1,000,000.

Ga., Atlanta — PLANT — Southwestern Wire & Iron Wks., 53 Martin St., plans 1 story, 200 x 200 ft. plant.

Ga., Columbus — LAUNDRY — Acme Laundry Co. purchased site and plans 1 story, steel and rein.-con., 16th St. and 11th Ave. $75,000.

Tenn., Knoxville — WAREHOUSE — Planters Warehouse, Inc., plans brick or sheet iron addition. $75,000. Private plans.

Tenn., Memphis—INDUSTRIAL—West Kentucky Coal Co., Butler St., H. I. Pierce, mgr., plans restoring tramways, warehouses, elevators, etc., Butler St., recently destroyed in cave in.

O., Cleveland—CAR BARNS—Cleveland Ry. Co., J. H. Alexander, vice pres., Hanna Bldg., having plans prepared by D. W. Morrow, engr. and archt., 4500 Euclid Ave., 100 x 175 ft. car service building, 60 x 100 ft. office, 20 x 60 ft. boiler house, and 64 x 25 ft. reservoir, all 1 story, brick and steel, West 117th St. and Loraine Ave. $200,000.

O., Cleveland—FACTORY—W. S. Tyler Co., East 36th St. and Superior Ave., had plans prepared by G. S. Rider Co., archts. and engrs., Century Bldg., 2 story and basement, 98 x 106 ft., brick, steel and concrete, East 36th St. $75,000.

O., Cleveland — FACTORY — Cleveland Pretzel Bakery Co., H. A. Orr, mgr., 1874 East 59th St., had plans prepared by W. Webster, 6600 Park Ave., 1 story and basement, 60 x 140 ft., brick and steel, 2920 East 65th St. $40,000.

O., Cleveland—FACTORY—F. C. Hafemeister, pres. and treas., 2925 East 79th St., had plans prepared 1 story and basement, brick, steel and concrete addition. $40,000. Private plans.

O., Dayton — AIRPLANE PLANT — Parker Airplane Co., Anderson, Ind., plans 2 story, 150 x 200 ft. plant, here. $85,000. Engineer and architect not selected.

O., Fostoria—FACTORIES—Natl. Carbon Co., M. W. Allen, mgr., West 117th St. and Madison Ave., Cleveland, having plans prepared by Stone & Webster, engrs. and archts., 24 Federal St., Boston, Mass., group 1 to 5 story brick, steel and concrete buildings, here. $1,500,000.

Ill., Chicago—FACTORY—Natures Rival Co., Irving Park Blvd. and Paulina St., having plans prepared by M. M. Fishman, 11 South La Salle St., and takes bids about Sept. 5, 3 story (ultimately 7 story) and basement, 163 x 185 ft., brick addition. $250,000.

Ill., Chicago — FACTORY — A. Epstein, archt., 2001 West Pershing St., takes bids about Aug. 21, 1 and 2 story, 100 x 177 ft., brick, 3431 West 48th Pl., for Economy Pumping Mchy. Co., 122 Curtis St. $60,000.

Ill., Chicago — FACTORY — A. Epstein, archt., 2001 West Pershing Rd., takes bids about Aug. 21, 2 story, 50 x 300 ft., brick, 3635 Iron St., for Federated Drug Co., 825 East 39th St. $75,000.

Ill., Chicago — FACTORY — A. Epstein, archt., 2001 West Pershing Rd., takes bids about Aug. 21, 2 story, 85 x 125 ft., brick, 3352-62 West 48th Pl., for Independent Felting Co., 3214 Fillmore St. $70,000.

Ill., Chicago — CANDY FACTORY — A. Epstein, archt., 2001 West Pershing Rd., takes bids about Aug. 25, 1 story, 108 x 185 ft., brick, incl. refrigerating plant, 3342 Iron St., for Central Mfg. Dist., c/o architect. $70,000.

Wis., Chippewa Falls — ICE CREAM FACTORY, etc.—Clover Leaf Creamery, 417 Bridge St., having plans prepared by C. Volkman, McGrath Bldg., Eau Claire, 2 story and basement, 50 x 86 ft., brick and concrete, plain foundation, Bay St. $50,000. Barber-Goodhue Co., 2494 University Ave., St. Paul, Minn., mechanical engr.

Wis., Janesville — HYDRO-ELECTRIC PLANT—Wisconsin Power & Light Co., Gay Bldg., Madison, having plans prepared rebuilding 1 story, 25 x 80 ft., rein.-con., brick and steel, plain foundation, here. Mead & Seastone, Journal Bldg., Madison, engrs.

Wis., Menasha — MILL — Valley Paper Mills Co., H. H. Held, Neenah, pres., plans rein.-con., brick and steel mill. $60,000. Engineer and architect not selected.

Wis., New London—FACTORY—Menzie Shoe Co., Superior St., Fond du Lac, plans 2 story, brick and timber factory, plain foundation, here. Engineer and architect not selected.

Wis., Shawano — BOX FACTORY — H. Iwen Co., plans rebuilding 2 story, 40 x 72 ft., brick and timber, plain foundation, here, recently destroyed by fire. $40,000. Engineer and architect not selected.

Wis., Sheboygan — FACTORY — E. A. Juul, archt., Security Natl. Bldg., making plans 4 story, 104 x 200 ft., rein.-con., brick and steel, plain foundation. $50,000. Owner's name withheld.

Mo., Kansas City — FACTORY — Motor Accessories Corp., 1801 Wyandotte St., having plans prepared by E. H. Gill, archt. and engr., 4906 Michigan Ave., 1 story, 90 x 130 ft., brick and steel, 2537 Madison St. $40,000.

Mo., North Kansas City—CHIPBOARD FACTORY—U. S. Gypsum Co. purchased site and plans 1, 2 and 3 story, 130 x 850 ft. factory. $400,000.

Mo., Poplar Bluff—MACHINE SHOP—Missouri Pacific R.R. Co., Railway Exch., St. Louis, having plans prepared rein.-con., brick and steel machine shop, incl. 100 ft. turntable. $300,000. E. A. Hadley, ch. engr.

Mo., Springfield — PRINTING — General Council Assemblies of God, J. R. Evans, secy., having preliminary plans prepared by Heckenlively & Marx, Landers Bldg., 1 and 2 story and basement, 50 x 118 ft., brick and concrete addition, West Pacific St. $40,000.

Tex., Amarillo — POWER PLANT — Southwestern Pub. Serv. Co. making pre-

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Buildings—Industrial (Continued)

liminary plans power plant, probably at White Deer. $150,000. Private plans.

Tex., Brownsville—COTTON GIN—McDavitt Gin Co. plans 8 stand, 80 saw capacity cotton gin. $70,000. Private plans.

Tex., Dallas—ROUND HOUSE—Southern Pacific Ry. Co., G. W. Boschke, ch. engr., 65 Market St., San Francisco, Calif., had plans prepared brick and rein.-con. round house near here. $55,000.

Tex., Dallas—ICE PLANT—Amer. Ice Co., c/o C. E. Kennemer, pres., 4901 Cole Ave., having plans prepared 80 ton ice plant, brick and rein.-con., 3307 Lemmon Ave. $150,000. Private plans.

Tex., Houston — FACTORY — Crain Ready-Cut House, c/o E. L. Crain, pres., plans rebuilding factory, recently destroyed by fire. $150,000. Engineer and architect not selected.

Tex., Wichita Falls — ICE PLANT — Owner c/o W. McKemie, Sr. and Jr., and R. H. Roark, having plans prepared brick, store and rein.-con., 601 Burnett St. $100,000. Private plans.

Okla., Eldora—COTTON GIN—Lee Barry Gin Co. having preliminary plans prepared 8 stand, 80 saw capacity, probably electrically driven cotton gin, sheet iron, brick and tile. $50,000.

Calif., Long Beach—FACTORY—H. Ford Motor Co., Highland Park, Mich., plans factory on 40 acre tract, covering 350,000 sq.ft., Long Beach Harbor, here.

Calif., Long Beach — COLD STORAGE PLANT—Home Ice Co., Anahein Rd., having plans prepared by P. J. Duncan, Pacific Natl. Bank Bldg., Los Angeles, 5 story, 75 x 135 ft., rein.-con., Anahein Rd.

Calif., San Francisco—BAKING PLANT—W. C. Johnson, 6th and Mission Sts., had plans prepared by D. A. Riedy, Pacific Bldg., 2 story and basement, rein.-con., Harrison and 9th Sts. $60,000.

Ont., Aylmer—PORK PACKING PLANT—Owner, B. Miller (interested) plans pork packing plant. $50,000. J. Dear, c/o B. Miller, mgr.

Ont., Belleville—FOUNDRY—Natl. Castings Ltd., N. Turner, mgr., having plans prepared rebuilding 1 and 2 story, rein.-con., brick and steel, plain foundation, recently destroyed by fire. $50,000. Engineer and architect not selected.

Ont., Oakville — FACTORY — Marlatt Leather Co., Forsyth St., having plans prepared by D. C. Cotton, Center Rd., Port Credit, 2 or 3 story, brick and timber addition, plain foundation. $40,000.

Ont., Oshawa—BAKERY—Canada Bread Co., 160 Avenue Rd., plans 2 story and basement, rein.-con., brick and steel, plain foundation, incl. steam heating system. $60,000. Engineer and architect not selected.

Ont., Renfrew — MANUFACTURING — Renfrew Textile Ltd. having plans prepared by A. McNicol, Renfrew, 3 story, 33 x 115 ft., brick and steel. Stewart St.

Ont., Stratford — FACTORY — Stratford Mfg. Co., C. Moore, mgr., making plans extending furniture and casket factory. $50,000.

Ont., Walkerville — ELECTRIC REFRIGERATOR FACTORY—Ice Matic Refrigeration Co. plans equipping plant for manufacturing electric refrigerators. $100,000. W. F. Morgan Dean, c/o owner, engr.

Bids Desired

Mass., Boston — BAKERY — C. Homsy, 110 Hudson St., taking bids 1 story and basement, 270 ft. long, brick addition, plain foundation. $40,000. N. S. Klink, 80 Boylston St., archt.

Pa., Butler—SUB-STATION—See "Contracts Awarded."

Pa., East Pittsburgh—LABORATORIES—See "Contracts Awarded."

Tenn., Nashville — BOILER HOUSE — Sept. 10, by Bd. Pub. Wks., at office S. H. McKay, city clk., boiler house superstructure, etc. J. H. Chester Eng. Co., 1111 Union Bank Bldg., Pittsburgh, Pa., engrs.; adv. E. N.-R. Aug. 19.

Mich., Muskegon—FACTORY—Standard Automobile Parts Co., Nims St., soon lets contract, 2 story 32 x 104 ft., brick and steel, Nims St. $40,000. F. P. Allen & Son, Grand Rapids, archts. and engrs.

Wis., Fond du Lac—CREAMERY—Galloway-West Co., Tomkins St., taking bids 2 story, 56 x 95 ft., rein.-con., brick and steel, plain foundation. $50,000. R. A. Sutherland, Commercial Bank Bldg., engr.

Kan., Coffeyville—FREIGHT HOUSE—Missouri-Pacific R.R. Co., Railway Exch. Bldg., St. Louis, Mo,. E. A. Hadley, ch. engr., taking bids 2 story, 40 x 250 ft. freight house, incl. platforms, etc. Division forces will construct tracks and track changes for same. $110,000.

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Mo., Nevada—ROUND HOUSE, etc.—See "Contracts Awarded."

Mo., St. Louis—FACTORY—See "Contracts Awarded."

Tex., Point Isabel—POWER and ICE PLANT—See "Contracts Awarded."

Calif., Maywood — IRON PLANT, SHOPS, etc.—See "Contracts Awarded."

Calif., Los Angeles — DISTRIBUTING STATION—See "Contracts Awarded."

Calif., Los Angeles — DISTRIBUTING STATION—See "Contracts Awarded."

Bids Received

Md., Baltimore—POWER HOUSE—See "Buildings—Educational, Religious."

Contracts Awarded

Mass., Amherst — REPAIR and SERVICE GARAGE—M. S. Paige, Amity St., 1 story, 60 x 100 ft., brick and rein.-con., plain foundation, to D. A. Sullivan & Son, 78 Main St., Northampton. Archts. est. $40,000. Noted Aug. 5.

Mass., Brighton (Boston P. O.) — REPAIR, SALES and SERVICE—A. Geiger, Jr., 79 Milk St., Boston, 1 story, 100 x 125 ft., brick and steel, plain foundation, North Beacon and Hickborn Sts., to Churchill Co., 80 Boylston St., Boston. Archts. est. $100,000.

Mass., Greenfield — BOILER HOUSE — See "Buildings—Commercial."

Mass., Northampton—PLANT—International Silver Co., Florence, 1 story, hardening building addition, rein.-con., plain foundation, to Casper Ranger Constr. Co., 20 Bond St., Holyoke. Archts. est. $40,000.

Mass., Springfield — MAINTENANCE — Chapman Valve Mfg. Co., Pine St., 2 story and basement, 60 x 100 ft., rein.-con., brick and stone addition, plain foundation, to F. T. Ley Co., Boylston St., Boston. Archts. est. $100,000.

R. I., Providence—REPAIR SHOP—Narragansett Electric Light Co., 1 story, brick, Eddy St., to Mahoney & Tucker, 72 Weybosset St. Archts. est. $40,000.

R. I., Providence—REPAIR SHOP and GARAGE — L. S. Brice, 112 11th St., 1 story, 60 x 215 ft., brick and steel, Hope St. and Hillside Ave., to P. J. Flynn, 17 Exchange St. Archts. est. $75,000.

R. I., Providence—REPAIR SHOP and GARAGE—New York, New Haven & Hartford R.R. Co., South Sta., Boston, Mass., 1 story, 86,000 sq.ft. floor space, rein.-con., brick and steel, Kingsley Ave., here, to H. R. Kent, Union Ave., Rutherford. Archts. est. to exceed $40,000. Noted June 3.

Conn., South Norwalk—LUMBER PLANT—Hatch Bailey & Co., 39 Marshall St., 3 story, 60 x 80 ft., brick and steel, plain foundation, to T. J. Pardy Co., 1481 Seaview Ave., Bridgeport. Archts. est. $40,000.

N. J., Trenton—REFRIGERATOR FACTORY—C. V. Hill, 360 Pennington St., 2 story, brick addition, to Burton & Son, 25 Weinder Ave., $50,000.

Pa., Butler—SUB-STATION—West Penn Power Co., West Penn Power Bldg., Pittsburgh, will build 1 story, irregular shaped, high tension sub-station, incl. 132,000 volt twin-circuit steel tower, by day labor. $125,000. Private plans.

Pa., Chester — MANUFACTURING — Aberfoyle Mfg. Co., Chester, 1 story and basement, 57 x 70 ft., rein.-con. and brick, plain foundation, to W. Provost Jr., Chester.

Pa., East Pittsburgh—LABORATORIES—Western Electric & Mfg. Co. will build 1 story and basement, 40 x 60 ft. research laboratory, and 1 story, 22 x 48 ft. top addition to chemical laboratory, both brick, hollow tile and steel, Braddock Ave., by day labor. $40,000 each. Private plans.

Pa., Enola—LABORATORY—State Dept. Agriculture, Harrisburg, 1 story and basement, 31 x 100 ft., and 50 x 106 ft., brick and steel, plain foundation, here, to C. W. Strayer, 13th and Thompson Sts., Harrisburg.

Pa., Phila.—CARPENTER SHOP—Helwig Silk Dyeing Co., Delaware Ave. and Howell St., 2 story and basement, 48 x 85 ft., brick and steel, plain foundation, here, to J. L. Fawley, 334 South Smedley St.

Pa., Reading — LAUNDRY — M. E. Heffner, c/o E. Hickman, archt., 148 South 5th St., 1 story and basement, 70 x 105 ft., cinder block and steel, 17th and Fairview Sts., to C. Schlegel, 528 Washington St.

Pa., Universal—STOCKHOUSE—Universal Portland Cement Co., Carnegie Bldg., Pittsburgh, 1 story, irregular shaped, rein.-con. stockhouse, here, to McDonald Eng. Co., 53 West Jackson St., Chicago, Ill., $237,848.

Pa., Williamsport—CAR BARN—Penna Power & Light Co., Allentown, general contract 1 story, 169 x 261 ft., brick and steel car barn, here, to H. K. Ferguson Co., 4800 Euclid Ave., Cleveland, O. Archts. est. $100,000.

O., Cleveland—FACTORY, OFFICE and GARAGE—J. W. Ladd Co., 758 Woodland Ave., 2 story and basement, 60 x 165 ft., brick, steel and concrete, incl. steam heating, 1615 East 25th St., to Austin Co., 1621 Euclid Ave. Archts. est. $100,000.

O., Dayton — POWER HOUSE — Dayton Light Co., 3rd Natl. Bank Bldg., rein.-con. steel and brick power house, 100 ft. brick stack, at Moraine City, to Danis Hugg Constr. Co., 1st and Webb Sts., Dayton, $100,000.

Ill., Chicago—FACTORY—Chicago Screw Co., 1026 Homan Ave., 2 story and basement, 120 x 124 ft., rein.-con. addition, to J. Hammond Co., 2234 Flournoy St.

Ill., Chicago — RUG FACTORY — Olson Rug Co., 32 Laflin St., masonry and concrete contract (1st unit), 300 x 320 ft. fireproof, Crawford and Diversey Sts., to Landquist Constr. Co., 32 Laflin St. Archts. est. $1,000,000.

Wis., Janesville — FACTORY — Fisher Body Corp., W. S. Knudsen, genl. mgr., 1 story, 150 x 645 ft., rein.-con., brick and steel, plain foundation, here, to W. W. Oeflein Co., 86 Michigan St., Milwaukee. Archts. est. $300,000.

Wis., Madison — STATION — Behrend Bros., 203 East Washington Ave., 1 story, 66 x 96 ft., rein.-con. and brick, plain foundation, here, to G. C. Gnare & Son, 2000 Jeniper St. Archts. est. $40,000.

Wis., Shawano — HYDRO-ELECTRIC PLANT — Wisconsin Power & Light Co., 16 North Carroll St. Madison, rein.-con., brick and steel, plain foundation on Wolf River, to L. E. Meyers Co., 53 West Jackson Ave., Chicago, Ill. Engrs. est. $200,000. Noted May 20.

Wis., Sheboygan — LAUNDRY — Ideal Wet Wash Laundry, 416 South River St., 2 story, 50 x 60 ft., rein.-con., brick and steel, plain foundation, to Verhulst Co., Inc., 2221 Calumet Dr. Archts. est. $40,000.

Wis., St. Nazianz—BOILER HOUSE and LAUNDRY—Salvation Fathers' 2 story and basement, brick and concrete, plain foundation, to W. W. Oeflein, 86 Michigan Ave., Milwaukee. Archts. est. $60,000. Noted Jan. 21.

Minn., St. Paul—ASSEMBLING PLANT and OFFICE — Mack International Motor Truck Corp., T. F. Egan, mgr., 2231 University Ave., general contract, 1 story and part basement, 200 x 300 ft., rein.-con., brick and stone, to J. Leck Co., 211 South 11th St., Minneapolis. Total approximately $300,000. Noted July 26.

Mo., Nevada — ROUND HOUSE, etc. — Missouri Pacific R.R. Co., Ry. Exch. Bldg., St. Louis, will build addition to roundhouse, incl. machine shop, boiler house and necessary track changes, etc., here, by day labor. $125,000. E. A. Hadley, ch. engr.

Mo., St. Louis — FACTORY — Century Electric Co., 1827 Pine St., will remodel 8 story and basement, 75 x 193 ft. factory, Olive St., incl. new front wall, 40 ft. back from original, by day labor. $150,000. L. B. Pendleton, DeMenil Bldg., archt.

Texas—ELECTRIC PLANT, etc.—Texas Power Co., c/o Natl. Bank of Commerce Bldg., San Antonio, hydro-electric plant at Seguin, incl. 3 power houses (at dam locations) 3 concrete dams on Guadalupe River and 2 canal head works, to Sumner Sollitt Co., c/o Natl. Bank of Commerce Bldg., San Antonio, $1,200,000.

Tex., Point Isabel — POWER and ICE PLANT—Valley Electric & Ice Co., will build 1 story, brick, steel and concrete, by day labor. $60,000. Private plans.

Okla., Sand Springs—BLEACHERY—C. R. Miller Mfg. Co., new bleaching mill, to W. R. Grimshaw, Kennedy Bldg., Tulsa, $300,000 cost plus percentage basis.

Calif., Los Angeles — DISTRIBUTING STATION — Bureau Power & Light Co., will build 2 story, 75 x 120 ft., rein.-con., South Corta St., by day labor. $100,000. or more.

Calif., Los Angeles — DISTRIBUTING STATION—Los Angeles Bureau Power & Light, 207 South Bway., will build 2 story, 74 x 120 ft., South Corto St., by day labor. $112,000. Private plans.

Calif., Maywood — IRON PLANT, SHOPS, etc.—Union Iron Wks., 5125 Santa Fe Ave., Los Angeles, will build 1 story, 153 x 450 ft., steel and corrugated iron, incl. electric craneways, by day labor.

Calif., Watsonville — ICE and COLD STORAGE PLANT — Watsonville Ice & Cold Storage Co., reconstructing and modernizing walls with 10 in. concrete, to H. E. Heller & Co., Stockton, approximately $150,000.

Ont., Oshawa—MOTOR PLANT—General Motors of Canada, 52 Mary St., general contract 1 story, 90 x 690 ft. rein.-con., brick and steel extension, to W. H. Yates Constr. Co., 95 King St. E., Toronto;

Buildings—Industrial (Continued)

excavation, to A. Cope & Son, 29 Albert St., Hamilton; structural steel, to Hamilton Bridge Wks., Bay St., Hamilton; reinforcing, to Burlington Steel Co., Sherman Ave. N., Hamilton; cut stone, to Ritchie Cut Stone Co., 191 Grant Ave., Hamilton.

Buildings—Educational, Religious

Proposed Work

Mass., Waltham (Ind. br. Boston)—CHURCH—Swedish Lutheran Church, J. E. Nelson, pastor, Main and Bacon Sts., having preliminary plans prepared by A. H. Hanson & E. S. Read, 177 State St., Boston, 2 story and basement, brick and stone, Weston St. near Eddy St. $150,000.

Conn., Farmington — SCHOOL — W. H. Mandry, supt. schools, having plans prepared by W. T. Towner, 363 Main St., Middletown, 2½ story, brick, steel and white stone, Staples St. $155,000.

Conn., Norwich—SCHOOL—Town, Bd. Educ., plans 2 story and basement, rein.-con., brick and stone school. $180,000. Engineer and architect not selected.

Pa., McVeytown — JUNIOR HIGH SCHOOL — McVeytown and Oliver Twp. School Dists., McVeytown, plans 3 story and basement, 100 x 140 ft. Junior High School and vocational shops. $150,000. Engineer and architect not selected.

Pa., Munhall — SCHOOL — School Dist. having plans prepared by A. G. Wickerham, 135 East 8th Ave., Homestead, 3 story and basement, 65 x 79 ft., brick, hollow tile and steel addition, incl. steam heating, Anderson St. $150,000.

Pa., Swarthmore—GRADE SCHOOL—Swarthmore School Dist., J. A. Perry, secy., 104 Princeton St., having plans prepared by Ritter & Shay, Packard Bldg., Phila., 3 story and basement, 66 x 104 ft., rein.-con. and brick, plain foundation.

D. C., Wash.—CHURCH—Grace Evangelical Church had plans prepared by Corbusier, Lenski & Foster, B. F. Keith Bldg., Cleveland, O., 1 story, 40 x 130 ft., steel, stone and concrete church.

Ga., Ft. Valley—SCHOOL—Voted $180,000 bonds, consolidated school, for Bd. Educ. Noted Aug. 5.

La., Homer — SCHOOL — Bd. Educ. Claiborne Parish takes bids after Aug. 20, 1 and 2 story, rein.-con., brick and stone, plain foundation, incl. plumbing, heating, etc. $175,000. E. F. Neild, 1206 City Bank Bldg., Shreveport, archt. Noted July 1.

O., Dayton — SCHOOL — H. Germann, archt., Schwind Bldg., soon takes bids 2 story, 212 x 320 ft., rein.-con. and brick, plain foundation, incl. plumbing, etc., Forest St., for Sisters Notre Dame Academy, 108 Franklin St. $500,000.

Ind., Indianapolis — SCHOOLS — School Comrs., 150 North Meridian St., having preliminary plans prepared School 66, 604 East 38th St.; School 84, 57th St. and Bway.; and addition to School 62, all foregoing of brick, steel and rein.-con. $150,000 each.

Ill., Chicago—CHURCH—First Presbyterian Church, 6400 Kenwood Ave., having plans prepared by Tallmadge & Watson, 160 North La Salle St., and takes bids in September or October, 3 and 4 story, basement and tower, 100 x 165 ft., brick and stone, 64th St. and Kimbank Ave. $500,000.

Wis., West Allis—SCHOOL—Bd. Industrial Educ., S. Moore, 457 63rd Ave., pres., having plans prepared by R. A. Messmer & Bro., 221 Grand Ave., Milwaukee, 3 story and basement, brick and concrete, plain foundation, Colburn Ave. $100,000-$150,000. Noted May 20.

Minn., Virginia—HIGH SCHOOL—Voted $750,000 bonds, high school, for Bd. Educ.

Neb., Omaha—CHURCH and SUNDAY SCHOOL—Dundee Presbyterian Congregation, R. Crossman, chn. building com., having plans prepared by C. W. Steinbaugh, 662 Brandeis Theatre Bldg., 1 story and basement, irregular shaped, brick, 55th and Underwood Sts. $225,000.

Tex., Corpus Christi — AUDITORIUM and LIBRARY—City, c/o P. G. Lovenskiold, mayor, having plans prepared by W. W. Withers, 212 Scanlon Bldg., Houston, 2 story (carry additional stories) brick, stone, rein.-con. and steel, incl. heating, plumbing, etc. $150,000.

Tex., Dallas — CHURCH — Oak Cliff Church of Christ, c/o W. L. Oliphant, 107 South Bishop St., had preliminary plans prepared by T. J Galbraith, 517 Slaughter Bldg., brick, stone and rein.-con., incl. heating, plumbing, etc., 10th and Van Buren Sts. $150,000.

Tex., Houston — CHURCH — First Evangelical Lutheran Congregation, c/o D. Baltzer, pastor, 1219 Texas Ave. having plans prepared by J. W. Northrop, Jr., 301 West Bldg., 2 story and basement, 59 x 110 ft., church, 2 story, 70 x 114 ft. Sunday school and 2 story 26 x 60 ft., residence, all rein.-con., brick and stone, incl. heating, plumbing, etc., Holman Ave. and Caroline St. $165,000.

Calif., San Luis Obispo—HIGH SCHOOL—San Luis Obispo High School Dist. plans election $360,000 bonds, 3 fireproof buildings. T. C. Kistner & Co., Pantages Theatre Bldg., Los Angeles, archts.

Ont., Toronto—SCHOOL—Bd. Educ., 155 College St., having plans prepared by C. E. Dyson, 155 College St., 1 story, 10 room, rein.-con., brick and steel addition to Silverthorn School, plain foundation, incl. steam heating and ventilating systems, Silverthorn St. $150,000.

T. H., Honolulu—SCHOOL—Bishop Estate having plans prepared by Dickey & Wood, Damon Bldg. (1st unit), Kamehameha School, incl. 20 rein.-con. buildings. $2,000,000.

T. H., Honolulu—SCHOOL—Territory of Hawaii having plans prepared by Dickey & Wood, Damon Bldg., Girls Industrial School, rein.-con. and timber. $400,000.

Bids Desired

Mass., Boston—SCHOOL—Boston University, 20 Beacon St., taking bids altering and constructing 2 story and basement, brick and stone addition. $150,000. Blackall, Clapp & Whittemore, 31 West St., archts.

Mass., Salem — CHURCH — St. Joseph Roman Catholic Church, c/o F. J. Untersee, archt., 585 Boylston St., Boston, taking bids 1 story and basement, brick and granite, plain foundation. To exceed $150,000.

N. J., Belleville—SCHOOLS—Aug. 23, by Bd. Educ., High School Bldg., Washington Ave. and Holmes St., constructing P. S. 9, also altering and addition to P. S. 5, on Greylock Parkway. C. G. Jones, 280 Bway., New York City, archt.

Pa., Juniata — CHURCH — Aug. 24, by First Methodist Episcopal Church, 1 and 2 story and basement, irregular shaped, stone church. $165,000. J. C. Fulton & Son, Uniontown, archts.

Pa., McKees Rocks—HIGH SCHOOL—J. H. Phillips, archt., P. O. Box 977, Pittsburgh, taking bids 2 story and basement, 61 x 281 ft., brick, steel, concrete and terra cotta, here, for Bd. Educ. $300,000.

Pa., Phila. — MUSEUM — Aug. 20, by Stewardson & Page, South 15th St., and Day & Klauder, archts., Franklin Bldg., 2 story, mezzanine and basement, 70 x 204 ft., rein. con., brick and steel addition, plain foundation, 34th and Spruce Sts, for University of Pennsylvania.

O., Cleveland — SCHOOL — Aug. 26, by Walker & Weeks, archts., 1900 Euclid Bldg., 2 story, rein.-con., brick and steel, incl. heating, boilers, refrigerating, laundry, etc., Courtland Blvd. and Wolverton Rd., for Hachaway-Brown School, J. D. Williamson, chn. trustees, 11205 Bellflower St. $350,000.

O., Columbus—SCHOOL—Aug. 25, by Holy Rosary Catholic Church, J. J. Murphy, pastor, Main and Seymour Sts., 3 story and basement, 80 x 160 ft., brick, concrete and stone, East Main St. $165,000. Snyder & Babbitt, 16 East Broad St., archts.

O., Kent—LIBRARY—Sept. 3, by Normal School, W. A. Cluff, secy., 2 story and basement, 100 x 125 ft., concrete, stone and marble library. $250,000. Ronan & Ingleson, 1614½ North High St., Columbus, archts. Noted Apr. 8.

Mich., Iron River — HIGH SCHOOL — Aug. 24, by Bd. Educ., W. A. Sweet, secy., 3 story and basement, 130 x 200 ft., rein.-con., brick and tile, plain foundation. $300,000. J. N. Churchill, 514 Oakland Bldg., Lansing, archt. Noted Aug. 5.

Mich., Iron River—SCHOOL—Aug. 24, by W. A. Sweet, secy. Bd. Educ., 2 story and basement, rein.-con., brick and steel, plain foundation. $150,000. J. N. Churchill, 906 Prudden Bldg., Lansing, archt.

Wis., Fort Atkinson — JUNIOR HIGH SCHOOL—Aug. 30, by Bd. Educ., c/o J. F. Schreiner, clk., 2 story nd basement, brick and tile school. $150,000. Parkinson & Dockendorff, Linker Bldg., La Crosse, archts. Noted Apr. 8.

Bids Received

Mass., Worcester—SCHOOL—Pub. Wks. Dept., 2 story and basement, brick and stone, plain foundation, Thorndyke St., from C. Rocheford, 58 Front St., $118,458. Noted July 29.

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GRADE CROSSING ELIMINATION—WARREN, OHIO

Bids were opened by Commissioners of Trumbull Co., July 27, for Girard Grade Crossing Elimination, from (A) Stange Construction Co., 2315 Fairmount Rd., Cleveland; (B) C. Shutrump & Sons Co., 407 Home Savings & Loan Bldg., Youngstown; (C) Mid Continent Construction Co., 6 North Michigan Ave., Chicago; (D) T. E. McShaffrey Construction Co., 173 South Forge St., Akron; H. E. Culbertson Co., East 75th and Platt Sts., Cleveland. The unit bids are as follows:

	A	B	C	D	E
Special conditions (lump sum)	$20,000 00	$20,749 00	$20,000 00	$17,000 00	$17,000 00
9,000 cu.yd. excavation and backfill	2 00	1 60	2 50	1 50	1 55
2,500 cu.yd. footing concrete	10 00	11 25	12 00	14 00	16 00
4,600 cu.yd. pier and abutment concrete	30 00	24 65	21 25	26 00	26 00
6,500 cu.yd. arch span girder and deck concrete	30 00	33 10	32 00	32 00	33 00
260 cu.yd. concrete for street protection	30 00	37 00	37 50	40 00	45 00
2,800 cu.ft. air pressure concrete	2 50	3 22	3 05	3 25	2 90
70 cu.yd. concrete for stairs	30 00	78 00	50 00	50 00	50 00
5,000 lin.ft. concrete railing	5 00	6 46	8 00	7 00	7 00
Concrete lamp stands and pavilions (lump sum)	7,000 00	5,567 00	10,000 00	8,600 00	9,000 00
19,200 lin.ft. concrete piles	2 00	2 73	2 10	2 25	1 90
1,600,400 lb. reinforcing steel	05	047	0475	05	05
112,000 lb. structural steel	055	0497	056	0609	06
900 lin.ft. expansion joints	1,600 00	1,961 00	1,125 00	2,400 00	2,200 00
56,000 sq.ft. waterproofing	06	089	06	10	05
8,800 sq.yd. paving-brick	2 50	2 39	3 00	2 50	2 95
4,400 sq.yd. paving—bituminous concrete	2 25	1 95	2 25	2 00	2 25
3,000 sq.yd. paving—bituminous topping	2 25	2 40	2 65	2 00	2 50
740 cu.yd. concrete base for brick paving	10 00	11 50	14 00	10 00	13 50
2,600 sq.ft. concrete sidewalks on approaches	40	37	40	40	45
1,000 cu.yd. concrete in culverts	30 00	17 75	18 75	18 00	19 50
6,200 sq.ft. slag sidewalks	20	25	25	30	27
2,700 lin.ft. brick gutter on approach filling	1 00	85	80	1 00	1 00
6,000 cu.yd. excavating and grading approaches	1 00	58	75	60	55
32,300 cu.yd. fill on approaches	1 00	1 15	1 00	80	95
910 lin.ft. guard rail on approaches	1 00	1 52	1 00	1 00	1 00
430 lin.ft. guard rail on Y and N approach	2 00	2 95	4 00	4 00	3 80
Conduits and lighting equipment (lump sum)	10,000 00	6,350 00	13,000 00	12,000 00	12,000 00
Downspouts (lump sum)	1,000 00	1,534 00	2,750 00	3,000 00	2,800 00
1 lin.ft. 6-in. vitrified pipe	1 00	75	75	1 00	75
1,300 lin.ft. 8-in. vitrified pipe	1 00	1 00	1 00	1 00	90
1,000 lin.ft. 10-in. vitrified pipe	1 25	1 25	1 25	1 25	1 25
240 lin.ft. 12-in. vitrified pipe	1 50	1 50	1 50	1 50	1 50
1 lin.ft. 15-in. vitrified pipe	2 00	2 00	2 00	2 50	2 00
40 lin.ft. 18-in. vitrified pipe	2 50	2 50	2 50	2 50	2 50
40 lin.ft. 24-in. vitrified pipe	3 00	3 00	3 75	3 00	3 00
12 units manholes and covers	90 00	100 00	100 00	150 00	85 00
8 units gutter drains and inlets	70 00	75 00	75 00	75 00	65 00
Extended totals	$766,753	$767,975	$771,838	$779,532	$795,336

Buildings—Educational, Religious (Cont.)

N. Y., Brooklyn—SCHOOL—W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., Aug. 10, general contract P. S. 101, for Bd. Educ., 500 Park Ave., New York City, from G. Colon Constr. Co., 81 East 125th St., New York City, $344,500; heating, from D. J. Rice, 606 1st Ave., New York City, $40,643.

N. Y., Yonkers—SCHOOL—Bd. Educ., Aug. 12, general contract P. S. 22, from Triangle Constr. Co., 453 McLean Ave., $126,332; and heating, from J. Sanford & Co., Inc., 306 Woodworth Bldg., $26,183.

N. J., Guttenberg—SCHOOL—Bd. Educ., general contract new school, from Capporelli-Bulofini Contg. Co., 612 Bline Ave., West New York, $179,036.

Md., Baltimore — COLLEGE — Bd. Awards, 3 story and basement, 239 x 360 ft. rein.-con. and stone, plain foundation, incl. brick power house, 33rd St. and Alameda Blvd., from J. Henry Miller, Inc., Eutaw and Franklin Sts., $1,998,000. Noted July 29.

O., Cleveland—NURSES HOME, etc.—City, D. S. Blossom, dir. Pub. Welfare, July 30, 3 story and basement, 45 x 86 ft. nurses home addition, and 30 x 34 ft. superintendents residence, from J. L. Hunting Co., Guarantee Title Bldg., $86,700; also 2 story, 50 x 160 ft. brick, steel and concrete pavilion for tuberculosis patients at Warrensville Farm, from Schrader Constr. Co., Auditorium Garage Bldg., $98,000. Noted July 22.

O., Shaker Heights (mail Cleveland)—SCHOOL—Bd. Educ., Aug. 2, 2 story and basement, brick, steel and concrete, incl. heating boiler, Ludlow and Southington Rds., from F. H. Vogel, Ridge Rd., Cleveland, $204,000. Noted July 22.

Calif., San Francisco — SCHOOL — Bd. Pub. Wks., general contract Sunnyside School, 2 story, rein.-con., from Anderson & Ringrose, 320 Market St., for City and San Francisco Co. $170,000. Noted July 22.

Contracts Awarded

Mass., Pittsfield—SCHOOL—City, School Bd., James Tucker School, 2 story and basement, brick and stone, plain foundation, Lynden St., to J. R. Hampson & Co., 184 North St. Archts. est. $150,000.

Mass., Quincy (Ind. br. Boston)—HIGH SCHOOL — City, Bd. Educ., Junior High School, 2 story and basement, brick and stone, plain foundation, Center St., to B. W. Neal, Inc., 293 Boylston St., Brookline, $252,100. Noted June 24.

R. I., Warren—SCHOOL—St. Jean Baptist Church, 2 story and basement, brick and stone, plain foundation, to Sevigny Bros., Warren. Archts. est. $150,000. Noted Aug. 5.

N. Y., East Elmhurst (Ind. Sta. Flushing) — SCHOOL — Bd. Educ., 500 Park Aves., New York City, general contract P. S. 127, 25th Ave. from 98th to 99th Sts., here, to Gibbs Rice Co., 254 Aqueduct Ave., New York City, $532,400; heating, to Heat Control Serv. Co., 759 Park Pl., Brooklyn, $65,743. Noted July 1.

N. J., Bernardsville—HIGH SCHOOL—Bd. Educ., brick, steel and stone, plain foundation, to Butz & Clader, Allentown, Pa. Noted Aug. 12.

Pa., Phila. — AUDITORIUM—University of Pennsylvania, 34th and Spruce Sts., W. B. Irvine Auditorium, 1 story, 2 balconies and basement, 165 x 165 ft., rein.-con., stone and steel, plain foundation, 34th and Spruce Sts., to Irwin & Leighton, 12th and Cherry Sts. Archts. est. $900,000. Noted July 15.

Ky., Covington — HIGH SCHOOL — Bd. Educ., Junior High School, 5 story and basement, rein.-con. and brick, Madison St., to Northcutt Bros., 639 Nelson Pl., Newport, $361,764.

O., Eaton—HIGH SCHOOL—Bd. Educ., general contract 3 story and basement high school, to Longnecker Co., Greenville, $224,680; heating and ventilating, to Freyne Bros. Co., 1028 North Illinois St., Indianapolis, Ind., $51,123.

Wis., Madison—SCHOOL—Bd. Educ., W. H. Pickford, clk., 22 West Dayton St., Lowell School, 3 story, rein.-con., brick and steel, plain foundation, here, to C. B. Fritz, 138 North Frances St. $169,820.

Wis., New Richmond — SCHOOL — Bd. Educ., A. Denneen, clk., 2 story and basement, 80 x 130 ft., brick, rein.-con. and steel, plain foundation, here, to Hoeppner & Bartlett, 414 Grand Ave., Eau Claire. Archts. est. $156,000.

Ia., Pella—COLLEGE—Central College, M. J. Hoffman, pres., 3 story, 65 x 117 ft., brick and concrete, to H. Veenstra, 219 East 1st St.

S. D., Aberdeen—PHYSICAL EDUCATIONAL—J. W. Henry, archt., Aberdeen, general contract 3 story and basement, 107 x 142 ft., rein.-con., brick and stone, plain foundation, to S. W. Jonason & Co., Aberdeen, for Northern Normal and Industrial School. $150,997. Noted Aug. 12.

Mo., Clayton—SCHOOL—Bd. Educ., J. L. Bracken, supt., general contract 2 story and basement, brick, concrete and stone, De Mun Tract, to Tobin Constr. Co., 1907 South Compton Ave., St. Louis, $106,990. Noted July 22.

Mo., St. Louis — CHURCH, etc. — Our Lady of Sorrows Parish, D. A. Stolte, pastor, 5815 South Kingshighway, 65 x 194 ft. church, 42 x 56 ft. parish house, and 52 x 62 ft. addition to school, all 2 story and basement, rein.-con. and brick, Kingshighway and Rhodes Ave., to J. P. Fendler, 6007 South Kingshighway. Archts. est. $225,000. Noted July 22.

Mo., St. Louis—NURSES HOME—Trueblood & Garf, archts., Chemical Bldg., 11 story and basement, 34 x 70 ft., and 34 x 103 ft., rein.-con., brick and stone, Kingshighway, to Seldon & Breck Constr. Co., 320 North 4th St. for Washington University and Barnes Hospital, 600 South Kingshighway. Noted July 29.

Mo., St. Louis—SCHOOL—Sts. Mary and Joseph Parish, c/o M. S. Brennen, pastor, 6310 Minnesota Ave., 2 story and basement, 100 x 110 ft., brick, concrete and stone school, incl. auditorium, Kansas and Minnesota Sts., to C. A. Welsch Constr. Co., DeMenil Bldg. Archts. est. $150,000.

Federal Government Work

Proposed Work

D. C., Wash. — Administration — U. S. Veterans Bureau, Arlington Bldg., having plans prepared and takes bids probably in September general contract 2 wing addition to administration building, incl. 2 wings, at Walter Reed Hospital, here. $1,100,000. Noted Apr. 8.

Calif., LaJolla — Towers — Spec. 5262 — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans steel beacon towers, north of here.

Calif., Tuburon — Stack — Spec. 5243 — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans steel stack at Naval Coal Depot, here.

Bids Desired

D. C., Wash.—Borings—Aug. 19, by Treas. Dept., at office Supervising Archt., Wash., D. C., test pits and borings on site for Internal Revenue Building. J. A. Wetmore, acting superv. archt.

Va., Norfolk—Breakwater—Aug. 27, by U. S. Shipping Bd., acting by and through the U. S. Shipping Bd. Emergency Fleet Corp., approximately 2,060 ft. single row close wood pile breakwater at Norfolk Army Base, here; adv. E. N.-R. Aug. 19.

Ky., Louisville—Beartrap Leaves—Sept. 13, by U. S. Engineer Office, Box 72, beartrap leaves for Dams 46 and 50, Ohio River; adv. E. N.-R. Aug. 19.

O., Dayton—Boiler House—Sept. 9, at office Constructing Quartermaster, Wright Field, complete boiler house with mechanical installation and smoke stacks, etc. at Wright Field, here; adv. E. N.-R. Aug. 19.

Ia., Marshall Town—Remodeling—Aug. 31, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here. J. A. Wetmore, acting superv. archt.

Missouri—Earthwork—Aug. 27, at office Secretary Mississippi River Comn., 1311 International Life Bldg., St. Louis, 240,000 cu.yd. earthwork in Des Moines-Mississippi Levee Dist. 1; adv. E. N.-R. Aug. 19.

Wash., Puget Sound—Surfacing—Spec. 5246—Sept. 8, by Bureau Yards & Docks, Navy Dept., Wash., D. C., bituminous wearing surface on Pier 6, here. Noted Aug. 12.

Bids Received

Mass., South Boston (Boston P. O.) — Utility — Spec. 5223 — Bureau Yards & Docks, Navy Dept., Wash., D. C., constructing utility building at Naval Dry Dock, here, from Newport Contg. & Eng. Co., Newport News, Va., $81,535. Noted July 29.

Hawaii—Dredging—U. S. Engineer Office, Honolulu, dredging in 2,345,000 cu.yd. Nawiliwili Harbor, from Hawaiian Dredging Co., at $0.32 per cu.yd., total $750,4[illegible]. Noted May 13.

Contracts Awarded

N. Y., New York—Dredging—U. S. Engineer Office, 39 Whitehall St., dredging and rock removal in New York and New Jersey Channels, to Great Lakes Dredge & Dock Co., 17 Battery Pl., $418,764. Noted July 29.

N. Y., Northport—Hospital—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., general contract U. S. Veterans Hospital group, here, to A. Blair, 11 South Lawrence St., Montgomery, Ala., $2,71[illegible]956; plumbing and heating, to Inland Engr. Corp., Hammond, Ind., $245,250 and $222,156 respectively; and electrical work, to Electric Constr. Co., 844 Rush St., Chicago, Ill., $96,400. Grand total $3,283,76[illegible]. Noted Aug. 5.

La., New Orleans—Remodeling—Treas. Dept., at office of Supervising Archt., Wash., D. C., remodeling custom house, here, to H. W. Bond & Bro., New Orleans, $17,087.

Ky., Newport — Remodeling — Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here, to Pearson-Regnall Co., 5816 Bway., Chicago, Ill., $17,500. Noted Aug. 12.

O., Dayton — Warehouse — Constructing Quartermaster, Wright Field, warehouse at Wright Field, to H. R. Blagg, 1221 East 1st St., $112,412. Noted Aug. 5.

Minn., Duluth—Warehouse and Dock—U. S. Engineer Office, warehouse and dock, at U. S. Vessel Yard, here, to Stack Constr. Co., 306 Sellwood Bldg., Duluth, $29,195. Noted July 22.

Mo., St. Louis — Remodeling — Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling custom house, here, to J. J. Clark Constr. Co., Arcade Bldg., $37,998.

Calif., Mare Island—Dredge Lines—Spec. 5235—Bureau Yards & Docks, Navy Dept., Wash., D. C., wood stave shore discharge dredge lines, here, to Pacific Tank & Pipe Co., 318 Market St., San Francisco, $16,153.

Unclassified

Proposed Work

Piers—Baltimore, Md.—See "Buildings—Industrial."

Transmission Line — North Carolina — Carolina Power & Light Co., Raleigh, plans 45 mi. transmission line from its plant near Asheville to Spruce Pine. $250,000. P. N. Tillery, Raleigh, mgr.

Gas Pipe Line — Kentucky — Louisville Gas & Electric Co., 311 West Chestnut St., Louisville, plans 36 mi. gas pipe line on State Aid Projects 8-A and 18-A, Jefferson Co.

Oil Pipe Line—Kentucky—Indian Pipe Line Corp., branch Indian Refining Co., 12th and Magnolia Sts., Louisville, plans 13.5 mi. oil pipe line on State Project 12-A, Daviess Co.

Athletic Field Improvements — Urbana, Ill.—University of Illinois, c/o G. Huff, athletic dir., making preliminary plans concrete walks and roadways $50,000, skating rink $50,000, floor and wall in east great hall $50,000, additional rest rooms for stadium $25,000, sodding fields $25,000, 200 lawn tennis courts $6,000, new baseball stand $10,000, baseball diamond $2,000, rubberized cover for football field $12,000, conversion of stadium into waiting room $20,000, rein.-con. addition to stadium $320,000, and tunnel from armory to basement of new gymnasium $6,000.

Park Improvements—Minneapolis, Minn.—Bd. Park Comrs., City Hall, making plans improving John Deere Webber Baths, Camden Park, incl. enlarging swimming pool from 44 x 45 ft. to 60 x 60 ft., pumping and filter equipment, lockers, etc. $75,000. Magney & Tuhsler, 126 South 9th St., archts.

Undergrade Crossing—St. Paul, Minn.—See "Streets and Roads."

Transmission Line—Texas—Texas Central Power Co., c/o Frost Bldg., San Antonio, plans 60 mi. power line from point in Winter Garden Dist. to Cotulla. $100,000. Private plans.

Tourist Camp—Houston, Tex.—Houston Tourist Camp Co., c/o B. Blakely, vice-pres., purchased 10 acre site and making plans Camp Grande Tourist Camp, incl. 2

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Unclassified (Continued)

story, hotel and auditorium, dining room and several 2, 3, 4 and 5 room bungalows, Main and Bellaire Blvd. $200,000. T. B. Cunningham, El Paso, engr.

Park Improvements—Mexia, Tex.—Voted $35,000 bonds, park improvements. J. G. McIntosh, city mgr.

Revetment—Port Arthur, Tex.—Election soon $50,000 bonds, shell revetment for west banks Sabine Neches ship channel, Houston to Shreveport Sts. O. M. Bower, city engr.

Lighting System—Andarko, Okla.—City making preliminary plans new electric distribution system and new 200 hp. turbo generator. $37,000. H. E. Musson, Grain Exch. Bldg., Oklahoma City, engr.

Golf Course—Redwood City, Calif.—See "Buildings—Commercial."

Electrical System—Orillia, Ont.—Water, Light & Power Comn. making plans changing present 2 phase, 4 wire 2,200 volt electric light and power distribution system to 3 phase, 4 wire, 8,800 volt system. $30,000. R. H. Starr, Orillia, engr.

Bids Desired

Subway—Brooklyn, N. Y.—Aug. 27, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, portion rapid transit railroad from Culver Line to Coney Island Yard, here.

Air Compressor—Farmingdale, N. Y.—Sept. 10, by President Bd. Trustees State Institute Applied Agriculture, air compressor in State Institute, here; adv. E. N.-R. Aug. 19.

Traffic Signals—New York, N. Y.—Aug. 23, by A. Goldman, comr. Plant & Structures, Municipal Bldg., traffic control signals and control boxes along 6th Ave. from West 3rd to West 53rd Sts.

Railroad Crossing—Phila., Pa.—Aug. 23, by Montgomery Smith, purch. agt. Pennsylvania R.R. Co., at 17th and Filbert Sts., railroad track crossing, Contr. 27-1926. A. C. Shand, Broad St. Sta., ch. engr. railroad.

Steam Turbines—Hamilton, O.—Sept. 15, by G. C. Mitchell, dir. Serv. two 3,000 kw. steam turbines, 2 condensers, three 500 hp. boilers, three 1750 kw. diesel engine generating units, for City Light Plant.

Lighting System—Upper Arlington (Columbus P. O.), **O.** — Aug. 31, by N. H. Copeland, village clk., extending lighting system, incl. 144 iron standards, one 24-kw. regulator and 35,000 lin.ft. cable. $30,000. D. B. Sayers, 52 West Gay St., Columbus, engr.

Grading and Foundation — Ann Arbor, Mich.—Aug. 23, by Osborn Eng. Co., engrs., and archts., 7016 Euclid Ave., Cleveland, O., grading and foundation work for stadium, 70,000 seating capacity, here, for University of Michigan.

Telephone System—Illinois—See "Contracts Awarded."

Grand Stand—Chicago, Ill.—Aug. 25, by Chicago Amer. League Baseball Club, 343 South Dearborn St., and Osborn Eng. Co., archts. and engrs., 7016 Euclid Ave., Cleveland, O., 20,000 seating capacity, steel and concrete addition. Noted June 24.

Coal Handling Equipment — Chippewa Falls, Wis. — T. A. Willenbockel, pres. Chippewa Falls Lumber & Coal Co., 12 South Bridge St., taking bids replacing coal handling equipment recently destroyed by fire.

Gas Mains — Leaside, Ont. — See "Contracts Awarded."

Bids Received

Comfort Station—Brooklyn, N. Y.—J. A. Guider, pres. Brooklyn Boro, Boro Hall, comfort station at Manhattan Bridge Plaza, from A. M. Goldsmith, Grand Central Terminal, New York City, $21,909. Noted Aug. 5.

Tracks, etc.—New York—Bd. Transportation, J. H. Delaney, chn., Lafayette St., New York City, rail break castings (Order 9) on Flushing Bridge, from Bethlehem Steel Co., 25 Bway., New York City, $9,390; installing tracks in Coney Island Yard, Brooklyn from B. T. and J. J. Mack, Inc., 160 Bway., New York City, $103,019; and track installation in Culver Line, Coney Island Yard, from J. H. Duncan, Inc., 5718 2nd Ave., Brooklyn, $102,328.

Balustrade — New York, N. Y. — Dept. Parks, Arsenal Bldg., Central Park, artificial granite balustrade on Harlem River Dr., from Ascher Eng. & Constr. Co., 1457 Bway., $64,400.

VIADUCT—NEWARK, N. J.

Bids were opened by North Jersey District Water Supply Commission, 24 Commerce St., July 22, for constructing West Brook Viaduct, Contr. No. 11, (A) General Construction Co., Inc., Du Pont Bldg., Wilmington, Del.; (B) Winston & Co., Inc., 240 Fair St., Kingston, N. Y.; (C) Conway & Reid, 2 Rector St., New York City; (D) Thomas Sheahan, Box 508, Hagerstown, Md.; (E) George B. Spearin, Inc., 75 West St., New York City; C. F. MacEvoy Co., 507 Orange St., Newark, $250,463; Arnolt-More, Inc., 45 Clinton St., Newark, $268,460; Maggi & Schoonover, Box 1725, Paterson, $271,505; F. W. Schwiers Jr. Co., 90 West St., New York City, $282,780; Parker & Graham, Inc., 5 Colt St., Paterson, $297,358; Spiniello Construction Co., 493 Monroe St., Orange, $367,425. The unit bids of the lowest four and highest bidders are as follows:

	A	B	C	D	E
400 cu.yd. excavation in sheeted trench	$20 00	$5 00	$15 00	$8 00	$10 00
3,000 cu.yd. excavation not in sheeted trench	1 00	2 00	1 85	2 60	3 00
34,000 cu.yd. embankment	75	95	1 30	1 25	2 50
200 cu.yd. surface dressing and grassing	10 00	4 00	3 40	2 50	7 00
1,200 cu.yd. concrete masonry, class "A"	23 00	24 00	19 00	26 00	30 00
1,200 cu.yd. concrete masonry, class "B"	23 00	20 00	17 00	24 50	30 00
1,100 cu.yd. concrete masonry, class "C"	23 00	14 00	15 00	19 00	30 00
225 sq.yd. concrete sidewalk	4 00	3 25	4 00	4 25	5 50
1,050 lin.ft. concrete railing	4 00	9 00	6 00	7 00	10 00
4,000 sq.ft. surface finish of concrete	25	12	15	15	50
6,000 bbl. cement	3 00	3 00	3 90	2 85	3 60
260,000 lb. steel for reinforcing concrete	07	08	06	06	07
16,000 lb. iron, steel and lead	10	18	20	15	15
4,000 lb. steel dowels	04	06	08	08	07
12,000 lb. cast steel	10	20	20	20	20
100 cu.yd. dry rubble masonry and paving	6 00	8 00	10 00	11 50	20 00
3,600 cu.yd. riprap	2 50	2 75	4 00	5 00	10 00
100 cu.yd. sand, gravel and broken stone	3 00	4 00	5 00	5 00	4 00
900 sq.yd. asphalt-block pavement	4 00	4 00	4 50	4 60	5 00
3,200 sq.yd. gravel pavement	75	1 25	95	70	80
50 lin.ft. pour-duct tile conduit	5 00	1 00	1 00	1 25	1 50
20 m.ft. b.m. timber and lumber	50 00	120 00	120 00	100 00	160 00
1,800 lin.ft. wooden guard rail	1 00	1 75	1 70	1 30	2 00
Falsework (lump sum)	9,415 00	15,000 00	32,000 00	28,980 00	100,000 00
5,000 lin.ft. furnishing timber piles	30	40	40	40	30
5,000 lin.ft. driving timber piles	95	85	1 00	65	50
500 furnishing labor for foundation tests...$ paid as wages	1 25	1 25	1 25	1 25	1 25
Extended totals	$199,500	$210,456	$236,975	$247,514	$419,978

Contracts Awarded

Baseball Cage — Allston (sta. Boston), **Mass.** — Harvard Athletic Assn., 1 story, 150 x 160 ft., brick baseball cage, Soldiers Field, to E. W. Pitman Co., Bay State Bldg., Lawrence. Archts. est. to exceed $40,000. Noted July 1.

Grade Crossing Elimination—Elmhurst (Ind. Sta. Flushing), **N. Y.**—Transit Comn., 270 Madison Ave., New York City, elimination of grade crossing at Broadway, here, to W. F. Kenny Co., 44 East 23rd St., New York City, $350,302.

Electrical Equipment—New York, N. Y.—New York State Bridge & Tunnel Comn., and New Jersey Interstate Bridge & Tunnel Comn., Woolworth Bldg., equipment for lighting tunnels, approaches, etc. Contr. 19, Holland Tunnel, to Fishback & Moore, 222 East 42nd St., $818,901. Noted July 29.

Telephone System — Illinois — Roxana Petroleum Corp., Shell Bldg., 13th and Locust Sts., St. Louis, Mo., will build telephone lines, switchboards, branch offices, etc. from Roxana, Ill., to East Chicago and to Hammond, Ind., by day labor. Private plans.

Culverts—Sidney, Ia.—See "Bridges."

Culverts—Sioux City, Ia.—For 11 culverts on Federal Aid Project 254, to H. Pickus Constr. Co., Sioux City, $14,219; one pony truss bridge on same road, to C. J. Kramme Co., Ft. Dodge, $9,200.

Power Unit—Crystal City, Tex.—Texas Central Power Co., c/o Frost Bldg., San Antonio, E. B. Neiswanger, mgr., will install 720 hp. diesel engine unit, here, mostly by day labor. $60,000. Private plans.

Dock—Galveston, Tex.—Galveston Wharf Co., 2 story, rein.-con., dock incl. two 1 story wings, 4 ramps, sprinkler system, etc., between 23rd and 26th Sts., to W. A. Kelso & Co., 2220 C St., $1,000,000.

Underpass — Billings, Mont. — Northern Pacific R.R. Co., Ry. Bldg., St. Paul, Minn., rein.-con. and steel pass under Northern Pacific R.R. tracks west of here, to Industrial Contg. Co., 3050 4th Ave. S., Minneapolis, Minn., approximately $26,000. Owner furnishes rein.-con. and steel.

Underpass—California—State Hy. Dept., Sacramento, constructing underpass at South San Francisco, to Barrett & Hilp, 918 Harrison St., San Francisco, $226,283.

Gas Mains — Leaside, Ont. — Consumers Gas Co., 19 Toronto St., Toronto, will install gas mains in various streets, here, by day labor. $30,000. Private plans.

Coke Screening Plant—Saulte Ste. Marie, Ont.—Algoma Steel Corp. installing coke screening plant, to Heyl & Patterson, 51 Water St., Pittsburgh, Pa. $250,000.

See proposal advertising on page 138

Materials

Bids Desired

Cement, etc.—New York, N. Y.—Aug. 26, by J. Miller, pres. Manhattan Boro, Municipal Bldg., 2,500 cu.yd. concrete and paving sand, 20,000 bags portland cement, 450,000 gal. asphaltic cement, 6,000 cu.yd. 3 in. binder stone, 2,500 tons inorganic dust, and 20,000 cu.yd. asphalt sand.

Structural Steel—Phila., Pa.—Aug. 27, by Montgomery Smith, purch. agt. Pennsylvania R.R. Co., at 17th and Filbert Sts., structural steel for bridges per plans 80329 and 80324, Contr. 29-1926. A. C. Shand, Broad St. Sta., ch. engr. railroad.

Portland Cement—St. Paul, Minn.—Aug. 31 by State Hy. Dept., 45,000 bbl. portland cement.

Concrete, Steel, etc. — Seguin, Tex. — Summer Sollitt Co., c/o Natl. Bank of Commerce Bldg., San Antonio, taking bids 35,000 yd. concrete, 497 tons structural steel, 832 tons reinforcing, 425 tons sheet steel piling, etc. for hydro-electric project, here, for Texas Power Co., c/o Natl. Bank of Commerce Bldg., San Antonio. Fargo Eng. Co., Jackson, Mich., engr.

Bids Received

Steel—Minneapolis, Minn.—F. S. Gram, city purch. agt., Aug. 5, 219 tons fabricated steel for Cedar Ave. Bridge, from Milwaukee Bridge Co., 1400 34th St., Milwaukee, Wis., $19,688. Noted July 29.

Contracts Awarded

Edgestone, etc. — Boston, Mass. — City, Supply Dept., granite edgestones for Pub. Wks. Dept., to T. H. McVey, 53 Market St., Brighton, $52,000.

Cable—Minneapolis, Minn.—F. S. Gram, city purch. agt., 29,600 lin.ft. cable for Fire Dept. underground signal system, to R. M. Laird Electric Co., 217 South 4th St., approximately $9,600.

Creosoted Piles — Los Angeles, Calif. — Harbor Comn., creosoted piles for wharf at Berths 228-D and F, to J. H. Baxter Co., Central Bldg., $35,845.

Concrete Piles—Fort William, Ont.—Fort William Paper Co. 1,500 concrete piles in connection with enlarging paper mill, to Raymond Concrete Pile Co., New Birks Bldg., Montreal. Engrs. est. $50,000.

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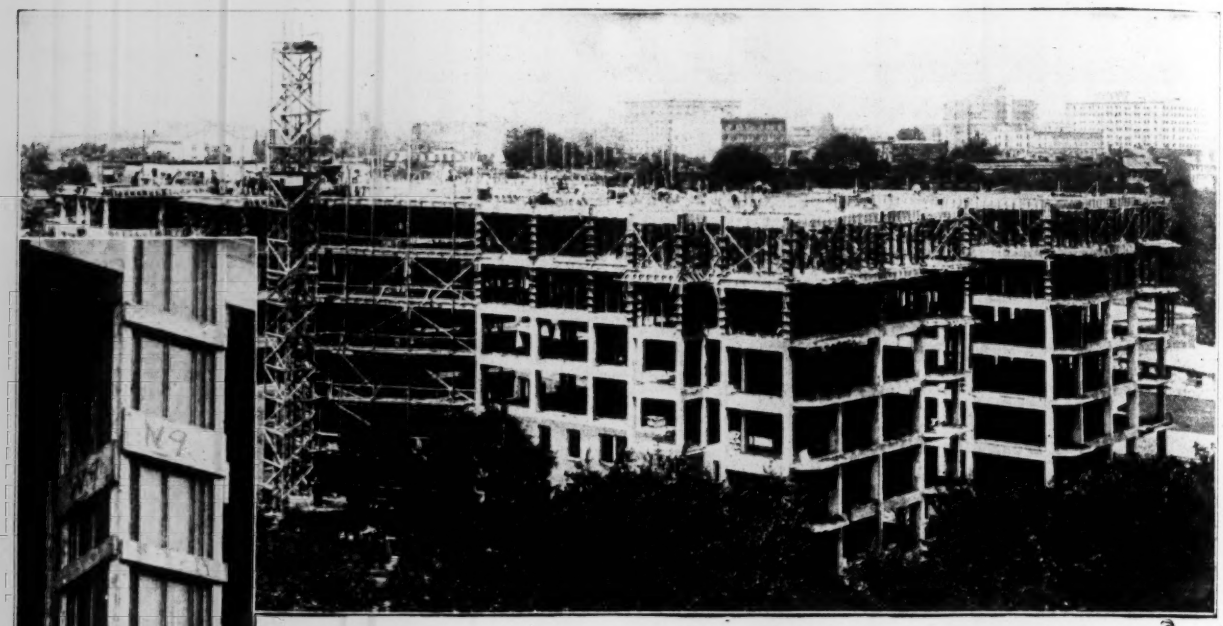

The Federal Fireproofing Co., concrete contractors, used Metal Forms—made of ARMCO Ingot Iron—in building the Boulevard Apartment, Washington, D. C. There were 208 columns on each floor.

Reducing Concrete Costs with Rust-resisting Metal Forms

That ARMCO Ingot Iron column forms have proved to be a great success is shown by the fact that the cost of reducing and clamping the forms for the Boulevard Apartment, Washington, D.C. was less than one-half the cost with wood forms.

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Wells Steel Forms

give years of service. They are strong, durable and easily repaired. They are assembled on a bench by carpenters. The sections are furnished in two-, and four-inch widths and in three-, four-, and five-foot lengths. The sections, nailed to wood battens, make columns of any length and width without waste.

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